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IONOSPHERIC DATA

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IONOSPHERIC DATA

This IRPL-F-series report, issued monthly, serves as one of the three current supplements to IRPL Radio Propagation Handbook, Part 1, (War Dept. TM11-499, Navy Dept. DNC-13-1). The supplements of the IRPL-D series, "Basic Radio Propagation Predictions Three Months in Advance," issued earlier in the month, include basic prediction charts, auxiliary charts and nomograms, as well as examples illustrative of their use. The supplements of the IRPL-E series, "Radio Propagation Predictions One Month in Advance", include revisions two months later of certain of the predictions given in the D series, and nomograms giving predictions in a form for rapid operational use. Before Sept. 1944 most of the material was combined in the single report, "Radio Propagation Conditions".

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September, 1944

Washington, D.C.

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TERMINOLOGY

Note.-- The following symbols are used, conforming to the recommendations of the International Radio Propagation Conference held in Washington, D.C., 17 April to 5 May 1944.

f^oF2 - ordinary-wave critical frequency for the F2 layer. The term night F layer will no longer be used. The term F2 layer is now used for the night F layer as well as the daytime F2 layer.

f^oFl - ordinary-wave critical frequency of the Fl layer.

f^oE - ordinary-wave critical frequency of the E layer.

$h'F2$ - minimum virtual height of the F2 layer.

$h'Fl$ - minimum virtual height of the Fl layer.

$h'E$ - minimum virtual height of the E layer.

f_{Es} - highest frequency of Es reflections.

M - maximum usable frequency factor, to be followed by the distance in km.
Example: M3500 represents 3500-km maximum usable frequency factor.

muf - maximum usable frequency.

[] - interpolated value.

() - doubtful value.

A - characteristic not measurable because of blanketing by sporadic E.

B - characteristic not measurable because of loss of trace due to absorption.

C - characteristic not measurable because of equipment failure or interference.

D - characteristic higher than upper limit of recorder.

E - characteristic less than lower limit of recorder.

F - spread echoes.

G - $f^oF2 \leq f^oFl$.

H - stratification observed within region.

J - ordinary-wave critical frequency deduced from measured extraordinary-wave critical frequency.

K - ionosphere storm in progress.

MONTHLY AVERAGES AND MEDIAN VALUES OF IONOSPHERIC DATA.

The tables and graphs of ionospheric data presented here are assembled by the Interservice Radio Propagation Laboratory for analysis and correlation principally incidental to IRFL predictions of radio propagation conditions. These data are furnished by the following:

Carnegie Institution of Washington (Department of Terrestrial Magnetism).
 Baffin Is., Canada
 Fairbanks, Alaska (University of Alaska, College, Alaska)
 Reykjavik, Iceland
 Maui, Hawaii
 Trinidad, Brit. West Indies
 Huancayo, Peru
 Watheroo, W. Australia

British National Physical Laboratory, and Inter-Services Ionosphere Bureau..
 Radio Research Station, Slough, England
 Great Baddow, England
 Burghead, Scotland
 Delhi, India

Australian Council for Scientific and Industrial Research.
 Radio Research Board, Australia
 Brisbane, Q., Australia
 Mt. Stromlo, Canberra, NSW, Australia.

Canadian Department of National Defence, Naval Service.
 Churchill, Canada
 Ottawa, Canada.

New Zealand Radio Research Committee.
 Kermadec Is.
 Christchurch (Canterbury University College Observatory)
 Campbell Is.

Peoples' Commissar for Postal and Electric Communications, Moscow, U.S.S.R.
 Tomsk, U.S.S.R.
 Sverdlovsk, U.S.S.R.

National Bureau of Standards, Washington, D.C.
 Stanford University, (San Francisco), California.
 Louisiana State University, Baton Rouge, Louisiana.
 University of Puerto Rico, San Juan, P.R.

For their timely value, some of the tables presented are provisional data received by telephone or telegraph in which there may be small or infrequent errors. When final values are available such errors will be corrected in later issues of this report.

The final values presented, both in tabular and graphical form, although correct for the quantities stated, as reported to this laboratory,

may sometimes lead to an erroneous conception of typical values for the quantity under consideration. Standard scaling practice, following recommendations of the International Radio Propagation Conference held in Washington, D.C., 17 April to 5 May, 1944, is not yet universal, deviation from standard practice being most common in the cases of records where spread echoes are present. Even when standard scaling practice is used, intrinsically misleading results may arise from the monthly average being determined from only a few observations during the month. Two frequent types of such error, both particularly typical of stations in far northern or far southern latitudes are:

(a) Erroneously high values of monthly average critical frequencies caused by the frequent absence of record for cases where the critical frequency is below the lower frequency limit of the recorder. A median, rather than a mean, value of the critical frequency is more significant in such cases, the median being that for all times at which observations were made, the cases of such inability to read the records being counted as less than the lower frequency limit of the apparatus.

(b) Erroneously high values of monthly average F2-layer critical frequencies caused by the frequent occurrence of cases where the F1-layer critical frequency exceeds that of the F2-layer. This is characteristic of summer months during sunspot-cycle minimum, particularly in northern latitudes. In this case, also, median values are more significant than mean values, the median being that for all cases where observations are made, those cases where missing values result because of higher f^oF1 being counted as less than the f^oF1 . When, as is often the case, no great discrepancy is likely to exist between f^oF1 and f^oF2 , a typical value of f^oF2 may be obtained by taking the monthly average of observed f^oF2 together with observed f^oF1 for the cases where no f^oF2 could be measured.

The discrepancy between predicted and observed values of monthly average critical frequencies, particularly for far northern stations, is frequently because of the above reasons, the predictions being intended to represent typical values for the location under consideration.

It may be noted by inspection of the figures presenting comparison of data received for the months of August, September, and October with IRPL predictions made four months in advance, that, generally, the predictions have been in error by being too low, especially in temperate latitudes.

These predictions are based on average trends of solar activity as measured by sunspot number. In the past few months this activity has been somewhat abnormally high. Occurrence of both sunspots and calcium flocculi during the past few months has been slightly more frequent at high than at low solar latitudes, indicating that perhaps the sunspot minimum has just been passed.

Because of great fluctuations in solar activity, however, an observation period of but a few months is so short as to render a final conclusion as to this premature as yet.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR

These data, observed at Washington, D.C., follow the scaling practices recommended by the International Radio Propagation Conference held in Washington, D.C., 17 April to 5 May 1944. (Cf. IRPL-C61, pp. 36-39).

In order to obtain typical values of monthly average $f^{\circ}F2$, for cases where the $f^{\circ}F2$ falls below the $f^{\circ}F1$, values of $f^{\circ}F1$ are used in taking the average, such cases being indicated in Table 42 by the symbol G, and a "less than" sign before the $f^{\circ}F1$ value inserted.

Because of the high variability of observed fEs, mean values are of little practical significance and are not given here.

Mean values of other quantities are given for all days of the month as well as for quiet days only. The criteria for selecting periods of ionospheric storminess, whose data are deleted in obtaining the mean values for quiet days only, are presented in IRPL-R5, "Criteria for Ionospheric Storminess", available to authorized persons upon request to the Chief of IRPL, National Bureau of Standards, Washington 25, D.C.

In determining the median values included in Tables 41 through 52, the following procedure has been adopted:

For all characteristics: Where the value is missing because of A, B, or C (see Terminology, above), that hour is omitted from the median count.

In addition,

For critical frequencies:

For all layers, where a value is missing because of E (see Terminology, above), it is counted as less than the lower limit of the recorder.

Where a value of $f^{\circ}F2$ is missing because of G (see Terminology, above), it is counted as less than the $f^{\circ}F1$ value for the same time.

Where values of $f^{\circ}E$ and $f^{\circ}F1$ are missing at the beginning or end of the diurnal curve, they are counted as less than the median frequency.

For virtual height:

Where a value of $h'F2$ is missing because of G (Cf. preceding section, Terminology, of this report), it is counted as greater than the median value.

For all virtual heights, values missing for any other reason than that given in the preceding paragraph are omitted from the median count.

For muf factors:

Values missing for any reason are omitted from the median count.

IONOSPHERIC DISTURBANCES

Table 53 presents ionospheric character figures and principal storms observed at Washington, D.C., during September 1944, as determined by the criteria presented in IRPL-R5, cited above, together with American magnetic K-figures which are usually covariant with them.

ERRATA

1. In the previous (September) issue of this report, the designations of the month were omitted from two tables of data presented, although proper designation was given in the table of contents. Table 4 should be designated "August, 1944". Table 20 should be designated "July, 1944."
2. In the September issue of this report, Table 10, the values given in the columns for $h'F1$ and $h'E$ should be interchanged.
3. In the September issue of this report, the value of noon $h'F2$ for Slough, England, as given at the end of Table 20, is erroneous and should be deleted.
4. In the September issue of this report, heading of Table 40, the value of E_0 for 1 mile should be " = 2460 millivolts per meter."

ADDENDA

In the September issue of this report, Tables 10 and 25, the times of reporting data from Christchurch, N.Z., should be those of 172.5°E .

Table 1

Baffin Island, Canada (70°5'N, 68°59'W)

September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'S	f'E	f'G	f'ES	F2-M3000
00	260	2.82							
01	275	2.71							
02	270	2.54							
03	276	2.71							
04	259	2.87							
05	247	3.27							
06	261	3.58	226	3.66					
07	269	3.88	225	3.20					
08	286	4.18	226	3.88	133	2.37			
09	310	4.43	230	3.45	127	2.48			
10	317	4.74	231	3.61	120	2.47			
11	298	4.87	228	3.66	123	2.45			
12	334	4.62	224	3.59	117	2.44			
13	289	4.64	225	3.61	127	2.40			
14	337	4.65	219	3.44	138	2.38			
15	289	4.68	228	3.33	143	2.36			
16	274	4.47	219	3.09	133	2.27			
17	258	4.35	238	2.90					
18	241	4.22							
19	238	4.08							
20	246	3.71							
21	245	3.48							
22	246	3.12							
23	251	2.93							

Plane: 75°W.

Length of time sweep: 2 Mo to 16 Mo in one minute. Supplemented by manual apparatus with low frequency limit 1.6 Mo.

Table 2

Fairbanks, Alaska (64°5'N, 147°8'W)

September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'S	f'E	f'G	f'ES	F2-M3000
00	260	2.82							
01	275	2.71							
02	270	2.54							
03	276	2.71							
04	259	2.87							
05	247	3.27							
06	261	3.58	226	3.66					
07	269	3.88	225	3.20					
08	286	4.18	226	3.88	133	2.37			
09	310	4.43	230	3.45	127	2.48			
10	317	4.74	231	3.61	120	2.47			
11	298	4.87	228	3.66	123	2.45			
12	334	4.62	224	3.59	117	2.44			
13	289	4.64	225	3.61	127	2.40			
14	337	4.65	219	3.44	138	2.38			
15	289	4.68	228	3.33	143	2.36			
16	274	4.47	219	3.09	133	2.27			
17	258	4.35	238	2.90					
18	241	4.22							
19	238	4.08							
20	246	3.71							
21	245	3.48							
22	246	3.12							
23	251	2.93							

Time: 150°W.

Length of time sweep: 16 Mo to 0.6 Mo in fifteen minutes.

Table 3

Reykjavik, Iceland (64°1'N, 21°7'W)

September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'G	f'ES	F2-M3000
00	300	5.00						
01	300	5.20						
02	330							
03								
04	280	3.60						
05	305	2.70						
06	336	3.19	250	2.80	100	2.60		
07	213	3.79	200	3.30				
08	219	4.17	247	4.00	107	2.50		
09	225	4.56	203	3.75	102	2.60		
10	276	4.76	206	3.81	100	2.64		
11	286	4.92	193	3.89	98	2.63		
12	282	5.09	205	3.96	97	2.77		
13	278	5.08	203	3.97	97	2.71		
14	283	5.15	201	3.94	101	2.65		
15	266	6.07	202	3.80	100	2.69		
16	246	6.06	212	3.70	109	2.62		
17	220	4.98	200	3.87	133	2.43		
18	220	4.84						
19	217	4.65						
20	210	4.47						
21	210	4.30						
22	240	3.20						
23	250	2.90						

Time: 150°W.

Length of time sweep: 2 Mo to 16 Mo in one minute.

Table 4

Smyntont, England (54°20'N, 0.6°W)

September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'G	f'ES	F2-M3000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Time: 150°W.

Length of time sweep: 16 Mo to 0.6 Mo in thirteen minutes.

Table 5

Fairbanks, Alaska (64°5'N, 147°8'W)

September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'G	f'ES	F2-M3000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Time: 150°W.

Length of time sweep: 2 Mo to 16 Mo in one minute.

Table 6

Smyntont, England (54°20'N, 0.6°W)

September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'G	f'ES	F2-M3000
00								
01								
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Time: 150°W.

Length of time sweep: 2 Mo to 16 Mo in one minute.

Table 7

Fairbanks, Alaska (64°5'N, 147°8'W)

September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h'E	f'G	f'ES	F2-M3000
00								
01								
02								
03								
04								
05								
06				</				

Table 5

Great Beddoe, England (51°7'N, 0°50'E)

September, 1944

Maui, Hawaii (20°8'N, 156°6'W)

September, 1944

Time	h°F2	f°F1	h°E	f°E	fES	F2-M3000
00	3°3		2°9			
01	3°2		2°9			
02	3°1		2°9			
03	3°1		2°9			
04	3°0		2°9			
05	2°8		2°9			
06	3°7		3°1			
07	4°4		3°4			
08	4°9		3°4			
09	5°2		3°4			
10	5°4		3°4			
11	5°5		3°2			
12	5°4		3°2			
13	5°4		3°2			
14	5°4		3°2			
15	5°4		3°2			
16	5°4		3°2			
17	5°5		3°2			
18	5°9		3°2			
19	6°1		3°1			
20	5°6		3°1			
21	4°7		3°1			
22	4°0		3°0			
23	3°5		2°9			

Time: 0°
Length of time sweep: Manual operation.Time: 160°W.
Length of time sweep: 2 Mo to 16 Mo in one minute.

Time

h°F2

f°F1

h°E

f°E

fES

F2-M3000

Time

h°F2

f°F1

h°E

Table 9

Brisbane, Q., Australia (27°5' S., 153°0' E.)

September, 1944.

Kermadec Island (29.2° S., 177.9° E.)

September, 1944

Time	h°F2	f°F2	h°Fl	f°Fl	h°E	f°E	fES	F2-M3000	Time	h°F2	f°F2	h°Fl	f°Fl	h°E	f°E	fES	F2-M3000
00	4.0								0015	265	4.00						
01	3.9								0100								
02	3.9								0200								
03	3.3								0310	249	2.89						
04	3.0								0400	285	2.72						
05	2.9								0500	294	2.58						
06	3.5								0600	267	3.43						
07	5.0								0700	5.19	3.32						
08	5.9								0800	273	5.92						
09	6.4								0900	281	6.11						
10	6.7								1000	295	5.95						
11	6.6								1100	301	6.21						
12	6.6								1200	297	6.58						
13	6.6								1300	283	6.68						
14	6.3								1400	6.28	2.33						
15	6.0								1500	261	6.01						
16	5.5								1600	266	5.66						
17	5.3								1700	249	5.35						
18	5.0								1800	239	4.92						
19	4.8								1850	259	4.82						
20	4.4								2000	275	4.49						
21	4.4								2100	286	4.41						
22	4.3								2200								
23	4.2								2300								

Time: 150°E.

Length of time sweep: 2.0 Mc in two minutes, thirty seconds.

Time: Local.

Length of time sweep: 1.8 Mc to 12.6 Mc. Manual operation.

Table 11

Watheroo, Western Australia (30°3' S., 115.9° E.).

September, 1944.

Simonstown, Union of S. Africa (33.9° S., 18.7° E.) September, 1944

Time	h°F2	f°F2	h°Fl	f°Fl	h°E	f°E	fES	F2-M3000	Time	h°F2	f°F2	h°Fl	f°Fl	h°E	f°E	fES	F2-M3000
00	244	3.59							00								
01	241	3.62							01	0.1	3.01						
02	231	3.71							02	0.2	3.02						
03	225	3.59							03	0.2	3.03						
04	232	3.35							04	0.1	3.04						
05	204	3.40							04	0.6	3.02						
06	245	3.61							05	0.6	3.03						
07	244	4.76							06	0.6	3.03						
08	271	5.18							07	3.4	4.05						
09	307	5.61							08	0.5	3.05						
10	314	5.74							09	0.2	3.06						
11	316	6.17							10	0.2	3.07						
12	286	6.57							11	1.1	6.03						
13	283	6.39							12	1.2	6.09						
14	281	6.44							13	0.3	7.02						
15	282	6.09							14	0.3	8.00						
16	264	5.35							15	0.3	7.07						
17	242	5.45							16	0.3	7.03						
18	226	5.45							17	0.4	6.9						
19	228	4.42							18	0.3	6.5						
20	235	3.87							19	0.2	5.02						
21	244	3.72							20	0.1	4.01						
22	244	3.68							21	0.0	3.05						
23	249	3.65							22	0.0	3.02						

Time: 120°E.

Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 12

Time	h°F2	f°F2	h°Fl	f°Fl	h°E	f°E	fES	F2-M3000	Time	h°F2	f°F2	h°Fl	f°Fl	h°E	f°E	fES	F2-M3000
00									00								
01									01	0.1	3.01						
02									02	0.2	3.02						
03									03	0.2	3.03						
04									04	0.1	3.04						
05									05	0.6	3.02						
06									06	0.6	3.03						
07									07	0.7	4.05						
08									08	0.8	5.03						
09									09	0.9	5.05						
10									10	0.9	6.00						
11									11	1.1	6.03						
12									12	1.2	6.09						
13									13	1.3	7.02						
14									14	1.4	8.00						
15									15	1.5	7.07						
16									16	1.6	7.03						
17									17	1.7	6.9						
18									18	1.8	6.5						
19									19	1.9	5.02						
20									20	2.0	4.01						
21									21	2.1	3.05						
22									22	2.2	3.02						
23									23	2.3	3.02						

Time: 150°E.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 13

Mt. Stromlo, N.S.W., Australia (36°30'S, 149.0°E)

September, 1944

Christchurch, N.Z. (43.5°S, 172.6°E)

September, 1944

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	f'Es	f'Es	F2-N3000
00	3.6				3.1				3.21
01	3.6				3.2	0.1			2.93
02	3.5				3.2	0.2			2.95
03	3.4				3.3	0.5			2.79
04	3.1				3.2	0.4			2.61
05	3.0				3.1	0.6			2.31
06	3.7				3.5	0.6			2.94
07	4.3				3.3	0.7			4.09
08	5.5				3.2	0.8			4.47
09	5.7				3.2	0.9			2.14
10	5.7				3.2	10			3.83
11	6.1				3.2	11			106
12	6.4				3.2	12			2.71
13	6.3				3.2	13			3.95
14	6.1				3.3	14			101
15	5.8				3.3	15			2.93
16	5.5				3.3	16			104
17	5.4				3.3	17			3.05
18	5.0				3.2	18			4.02
19	4.6				3.1	19			103
20	4.2				3.1	20			2.94
21	4.1				3.1	21			105
22	3.9				3.1	22			3.03
23	3.7				3.1	23			2.96

Time: 1500°E.
Length of time sweep: 1.6 Mc to 12.5 Mc in two minutes.

Table 15

Campbell Islands (52.0°S, 169.0°E)

September, 1944

Christchurch, N.Z. (43.5°S, 172.6°E)

September, 1944

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	f'Es	f'Es	F2-N3000
00							0.0	0.0	3.2
01							0.1	0.1	3.2
02							0.2	0.2	3.1
03							0.3	0.3	2.9
04							0.4	0.4	3.0
05							0.5	0.5	3.4
06							0.6	0.6	3.9
07	261	3.83					0.7	0.7	4.1
08							0.8	0.8	4.6
09	288	4.65	214	3.68	122	2.60			
10							0.9	0.9	5.0
11	312	4.93	214	4.03	116	2.76			5.1
12	313	4.99	211	4.04	115	2.76			5.1
13	314	5.15	213	3.94	117	2.74			5.1
14							13	13	4.9
15	280	5.00	215	3.52	120	2.61			5.0
16							14	14	4.9
17	288	4.61					15	15	4.9
18							16	16	4.8
19	270	4.20					17	17	5.0
20	291	3.50					18	18	5.1
21							19	19	5.2
22							20	20	4.9
23							21	21	4.7
							22	22	4.2
							23	23	3.5

Time: Local
Length of time sweep: 1 Mc to 12 Mc. Manual operation.

Stainston, England (56.2°N, 0.6°W)

August, 1944

Time	h'F2	f'F2	h'F1	f'F1	h'E	f'E	f'Es	f'Es	F2-N3000
00							0.0	0.0	3.2
01							0.1	0.1	3.2
02							0.2	0.2	3.1
03							0.3	0.3	2.9
04							0.4	0.4	3.0
05							0.5	0.5	3.4
06							0.6	0.6	3.9
07	261	3.83					0.7	0.7	4.1
08							0.8	0.8	4.6
09	288	4.65	214	3.68	122	2.60			
10							0.9	0.9	5.0
11	312	4.93	214	4.03	116	2.76			5.1
12	313	4.99	211	4.04	115	2.76			5.1
13	314	5.15	213	3.94	117	2.74			5.1
14							13	13	4.9
15	280	5.00	215	3.52	120	2.61			5.0
16							14	14	4.9
17	288	4.61					15	15	4.9
18							16	16	4.8
19	270	4.20					17	17	5.0
20	291	3.50					18	18	5.1
21							19	19	5.2
22							20	20	4.9
23							21	21	4.7
							22	22	4.2
							23	23	3.5

Time: 0°
Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 17

Brisbane, Q., Australia (27.5°S, 153.0°E)

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$	$F2-M3000$
00	288	3.58					3.2	
01	273	3.56					3.2	
02	272	3.50					3.2	
03	246	3.39					3.4	
04	2.90						3.3	
05	2.61						3.3	
06	2.37						3.3	
07	246	4.60					3.2	
08	276	5.27	245	3.70			3.5	
09	291	5.66	239	4.03	119	2.70	3.4	
10	292	5.32	230	4.26	117	2.90	3.4	
11	303	5.39	219	4.32	115	2.99	3.5	
12	304	5.97	211	4.31	116	3.02	3.5	
13	308	5.36	210	4.27	118	2.97	3.4	
14	294	5.94	212	4.15	122	2.85	3.4	
15	274	5.64	223	3.97	2.63		3.4	
16	264	5.22	218	3.36			3.4	
17	243	4.97					3.4	
18	251	4.40					3.3	
19	267	3.39					3.2	
20	287	3.72					3.0	
21	284	3.71					3.0	
22	290	3.65					3.0	
23	292	3.60					3.1	

Time: 150°E.

Length of time sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Table 18

Mt. Stromlo, N.S.W., Australia (35.3°S, 149.0°E)

August, 1944

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$	$F2-M3000$
00	288	3.58					3.2	
01	273	3.56					3.2	
02	272	3.50					3.2	
03	246	3.39					3.4	
04	2.90						3.3	
05	2.61						3.3	
06	2.37						3.2	
07	246	4.60					3.2	
08	276	5.27	245	3.70			3.5	
09	291	5.66	239	4.03	119	2.70	3.4	
10	292	5.32	230	4.26	117	2.90	3.4	
11	303	5.39	219	4.32	115	2.99	3.5	
12	304	5.97	211	4.31	116	3.02	3.5	
13	308	5.36	210	4.27	118	2.97	3.4	
14	294	5.94	212	4.15	122	2.85	3.4	
15	274	5.64	223	3.97	2.63		3.4	
16	264	5.22	218	3.36			3.4	
17	243	4.97					3.4	
18	251	4.40					3.3	
19	267	3.39					3.2	
20	287	3.72					3.0	
21	284	3.71					3.0	
22	290	3.65					3.0	
23	292	3.60					3.1	

Time: 150°E.

Length of time sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Table 19

Churchill, Canada (58.8°N, 94.2°W)

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$	$F2-M3000$
00	291	3.7					6.1	
01	340	3.9					5.0	
02	343	3.7					9.0	
03	322	3.8					11.5	
04	330	3.6					10.4	
05	327	3.9	246		108	3.0	4.2	
06	307	263	3.5	99	3.2	3.8		
07	314	4.4	268	3.8	96	3.3	4.0	
08	330	4.4	258	3.9	103	3.2	3.6	
09	346	4.6	231	3.9	103	3.1	3.1	
10	362	4.3	220	4.0	102	3.0	3.0	
11	360	4.9	214	4.0	105	3.1	3.0	
12	349	5.0	210	4.0	101	3.0	3.1	
13	353	5.1	217	4.0	103	2.9	3.1	
14	338	5.2	222	4.0	103	2.9	3.0	
15	321	5.4	229	3.8	105	2.8	3.0	
16	311	5.4	233	3.7	111	2.7	3.0	
17	291	5.4	237	3.4	120	2.7	3.1	
18	282	5.1	237	3.5	110	2.8	3.1	
19	291	4.4			112	2.3	3.5	
20	320	4.2			116	2.9	4.7	
21	293	4.2			115	2.9	5.6	
22	291	4.3			5.4	2.9		
23	286	4.3			6.1	3.1		

Time: 90°W.

Length of time sweep: 2 Mc to 16 Mc in one minute.

Table 20

Ottawa, Canada (45.5°N, 75.8°W)

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$	$F2-M3000$
00	291	3.7					0.1	
01	340	3.9					0.1	
02	343	3.7					0.2	
03	322	3.8					0.2	
04	330	3.6					0.3	
05	327	3.9	246		108	3.0	4.2	
06	307	263	3.5	99	3.2	3.8		
07	314	4.4	268	3.8	96	3.3	4.0	
08	330	4.4	258	3.9	103	3.2	3.6	
09	346	4.6	231	3.9	103	3.1	3.1	
10	362	4.3	220	4.0	102	3.0	3.0	
11	360	4.9	214	4.0	105	3.1	3.0	
12	349	5.0	210	4.0	101	3.0	3.1	
13	353	5.1	217	4.0	103	2.9	3.1	
14	338	5.2	222	4.0	103	2.9	3.0	
15	321	5.4	229	3.8	105	2.8	3.0	
16	311	5.4	233	3.7	111	2.7	3.0	
17	291	5.4	237	3.4	120	2.7	3.1	
18	282	5.1	237	3.5	110	2.8	3.1	
19	291	4.4			112	2.3	3.5	
20	320	4.2			116	2.9	4.7	
21	293	4.2			115	2.9	5.6	
22	291	4.3			5.4	2.9		
23	286	4.3			6.1	3.1		

Time: 75°W.

Length of time sweep: 1.93 Mc to 13.5 Mc in two minutes.

Table 21

September, 1944

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$	$F2-M3000$
00	291	3.7					0.0	
01	340	3.9					0.1	
02	343	3.7					0.2	
03	322	3.8					0.2	
04	330	3.6					0.3	
05	327	3.9	246		108	3.0	4.2	
06	307	263	3.5	99	3.2	3.8		
07	314	4.4	268	3.8	96	3.3	4.0	
08	330	4.4	258	3.9	103	3.2	3.6	
09	346	4.6	231	3.9	103	3.1	3.1	
10	362	4.3	220	4.0	102	3.0	3.0	
11	360	4.9	214	4.0	105	3.1	3.0	
12	349	5.0	210	4.0	101	3.0	3.1	
13	353	5.1	217	4.0	103	2.9	3.1	
14	338	5.2	222	4.0	103	2.9	3.0	
15	321	5.4	229	3.8	105	2.8	3.0	
16	311	5.4	233	3.7	111	2.7	3.0	
17	291	5.4	237	3.4	120	2.7	3.1	
18	282	5.1	237	3.5	110	2.8	3.1	
19	291	4.4			112	2.3	3.5	
20	320	4.2			116	2.9	4.7	
21	293	4.2			115	2.9	5.6	
22	291	4.3			5.4	2.9		
23	286	4.3			6.1	3.1		

Time: 90°W.

Length of time sweep: 1.93 Mc to 13.5 Mc in two minutes.

Table 22

September, 1944

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$	$F2-M3000$
00	291	3.7					0.0	
01	340	3.9					0.1	
02	343	3.7					0.2	
03	322	3.8					0.2	
04	330	3.6					0.3	
05	327	3.9	246		108	3.0	4.2	
06	307	263	3.5	99	3.2	3.8		
07	314	4.4	268	3.8	96	3.3	4.0	
08	330	4.4	258	3.9	103	3.2	3.6	
09	346	4.6	231	3.9	103	3.1	3.1	
10	362	4.3	220	4.0	102	3.0	3.0	
11	360	4.9	214					

Table 22

Washington, D.C. (38.00°N, 77.56°W) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	h°F0	f°F0	h°F-MS000	f°F-MS000
00	270	2.71			2.4	3.0	0.0	262	3.25	2.8
01	271	2.50			2.4	3.0	0.1	262	3.25	3.0
02	268	2.33			2.3	3.0	0.2	265	3.20	3.1
03	260	2.18			2.0	3.0	0.3	263	3.18	3.1
04	263	2.02			2.0	3.1	0.4	268	3.17	3.0
05	276	1.96			1.58	2.4	0.5	265	3.26	3.0
06	247	3.27			125	2.16	0.6	277	4.90	2.90
07	251	4.41	222		3.20	2.16	0.7	277	4.90	2.90
08	277	4.92	220		3.72	2.59	0.8	286	6.54	223
09	307	5.29	219		3.89	11.9	0.9	316	6.56	209
10	304	5.46	212		4.14	11.6	1.0	328	6.60	206
11	317	5.56	206		4.18	11.7	1.1	344	5.84	201
12	325	5.57	206		4.23	11.5	1.2	360	5.92	196
13	317	5.78	210		4.21	11.4	1.3	331	6.25	194
14	316	5.86	218		4.16	11.3	1.4	316	6.29	221
15	306	6.74	226		4.03	11.6	1.5	300	6.24	221
16	292	5.80	234		5.77	11.7	1.6	267	6.00	229
17	267	5.82	236		3.41	11.9	1.7	249	5.79	235
18	242	5.64	245		2.70	12.6	1.8	226	5.27	227
19	233	5.48				1.74	1.9	220	4.63	2.8
20	236	4.80				2.4	2.0	228	3.67	2.7
21	244	4.03				2.4	2.1	262	3.36	3.0
22	254	3.35				2.4	2.1	222	3.28	3.1
23	264	2.94				2.1	2.1	257	3.27	2.4

Time: 750W.
Length of time sweep: 0.8 Mc to 14.0 Mc in two minutes.

Time: 1200W.
Length of time sweep: 0.8 Mc to 12 Mc in six minutes. Record centered
on the hour.

Table 23

Baton Rouge, Louisiana (30.5°N, 91.2°W) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	h°F0	f°F0	h°F-MS000	f°F-MS000
00	300	3.36			3.0	0.0	3.56			2.8
01	299	3.38			3.0	0.1	3.79			2.8
02	291	3.56			3.2	0.2	3.64			3.1
03	281	3.52			3.2	0.3	3.46			3.1
04	283	3.13			3.1	0.4	3.07			3.0
05	291	3.12			3.0	0.5	3.03			3.1
06	263	4.24			3.2	0.6	4.08			3.2
07	293	5.42	243		3.54	132	0.7	267	6.22	3.18
08	290	5.75	233		4.08	120	2.20	298	5.69	241
09	317	5.68	230		4.10	121	2.62	320	6.02	232
10	352	5.85	218		4.49	120	3.10	341	6.16	222
11	356	6.22	225		4.56	120	3.17	356	6.75	222
12	348	6.64	231		4.59	121	3.22	359	7.29	235
13	346	6.89	237		4.57	120	3.22	3.0	8.18	237
14	335	7.12	239		4.51	120	3.16	316	8.94	256
15	317	7.26	249		4.42	121	3.02	295	9.06	244
16	305	7.31	247		4.12	123	2.64	280	8.75	248
17	277	7.48	248		3.48	132	2.19	268	8.13	255
18	241	6.75	250				3.3	248	7.08	3.10
19	233	5.39					3.4	19	247	5.80
20	258	4.05					3.1	20	4.55	3.3
21	282	5.47					3.0	21	3.85	2.8
22	292	3.36					3.0	22	3.69	2.9
23	296	3.32					3.0	23	3.54	2.8

Time: 900W.
Length of time sweep: 1.9 Mc to 9.8 Mc in three minutes thirty seconds.
Record centered on the hour.

San Juan, Puerto Rico (18.4°N, 66.1°W) September, 1944

Time	h°F2	f°F2	h°F1	f°F1	h°F	f°F	h°F0	f°F0	h°F-MS000	f°F-MS000
00	300	3.56			3.0	0.0	3.56			2.8
01	299	3.58			3.0	0.1	3.79			2.8
02	291	3.56			3.2	0.2	3.64			3.1
03	281	3.52			3.2	0.3	3.46			3.1
04	283	3.13			3.1	0.4	3.07			3.0
05	291	3.12			3.0	0.5	3.03			3.1
06	263	4.24			3.2	0.6	4.08			3.2
07	293	5.42	243		3.54	132	0.7	267	6.22	3.18
08	290	5.75	233		4.08	120	2.20	298	5.69	241
09	317	5.68	230		4.10	121	2.62	320	6.02	232
10	352	5.85	218		4.49	120	3.10	341	6.16	222
11	356	6.22	225		4.56	120	3.17	356	6.75	222
12	348	6.64	231		4.59	121	3.22	359	7.29	235
13	346	6.89	237		4.57	120	3.22	3.0	8.18	237
14	335	7.12	239		4.51	120	3.16	316	8.94	256
15	317	7.26	249		4.42	121	3.02	295	9.06	244
16	305	7.31	247		4.12	123	2.64	280	8.75	248
17	277	7.48	248		3.48	132	2.19	268	8.13	255
18	241	6.75	250				3.3	19	247	5.80
19	233	5.39					3.4	20	4.55	3.3
20	258	4.05					3.1	21	3.85	2.8
21	282	5.47					3.0	22	3.69	2.9
22	292	3.36					3.0	23	3.54	2.8

Time: Local.
Length of time sweep: 3 Mc to 12 Mc in eleven minutes. Record centered
on the hour.

Table 25

(Corrections and additions to previously issued provisional data)

Fairbanks, Alaska (64°30'N, 147°8'W)

August, 1944

Time	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	
00	298		5.3		5.3		00		3.5		3.5		00		3.5		3.5		3.5		3.5		3.5		3.5
01		316	5.4		5.4		01		3.5		3.5		01		3.5		3.5		3.5		3.5		3.5		3.5
02			5.6		5.6		02		3.1		3.1		02		3.1		3.1		3.1		3.1		3.1		3.1
03			5.0		5.0		03		2.9		2.9		03		2.9		2.9		2.9		2.9		2.9		2.9
04			3.2		3.2		04		2.9		2.9		04		2.9		2.9		2.9		2.9		2.9		2.9
05			3.1		3.1		05		3.3		3.3		05		3.3		3.3		3.3		3.3		3.3		3.3
06			2.16		3.3		06		3.9		3.9		06		3.9		3.9		3.9		3.9		3.9		3.9
07			3.2		3.2		07		4.3		4.3		07		4.3		4.3		4.3		4.3		4.3		4.3
08		4.01	3.72		2.71		08		4.6		4.6		08		4.6		4.6		4.6		4.6		4.6		4.6
09		4.64					09		5.0		5.0		09		5.0		5.0		5.0		5.0		5.0		5.0
10					3.0		10		5.1		5.1		10		5.1		5.1		5.1		5.1		5.1		5.1
11		4.31	4.42		3.1		11		5.2		5.2		11		5.2		5.2		5.2		5.2		5.2		5.2
12		4.53			3.2		12		5.1		5.1		12		5.1		5.1		5.1		5.1		5.1		5.1
13		44.3			2.82		13		5.0		5.0		13		5.0		5.0		5.0		5.0		5.0		5.0
14		42.4			2.60		14		5.0		5.0		14		5.0		5.0		5.0		5.0		5.0		5.0
15			2.41		2.8		15		5.0		5.0		15		5.0		5.0		5.0		5.0		5.0		5.0
16		37.9			3.0		16		5.0		5.0		16		5.0		5.0		5.0		5.0		5.0		5.0
17					3.0		17		5.2		5.2		17		5.2		5.2		5.2		5.2		5.2		5.2
18		28.1			2.6		18		5.4		5.4		18		5.4		5.4		5.4		5.4		5.4		5.4
19					1.70		19		6.0		6.0		19		6.0		6.0		6.0		6.0		6.0		6.0
20					3.0		20		6.0		6.0		20		6.0		6.0		6.0		6.0		6.0		6.0
21					3.5		21		5.5		5.5		21		5.5		5.5		5.5		5.5		5.5		5.5
22					3.3		22		4.5		4.5		22		4.5		4.5		4.5		4.5		4.5		4.5
23					3.1		23		3.9		3.9		23		3.9		3.9		3.9		3.9		3.9		3.9

Time: 1500W.
Length of time sweep: 16 Mo to 0.5 Mo in fifteen minutes.

Table 27

(Corrections and additions to previously issued provisional data)

Mai, Hawaii (20°6.5'N, 156°5.5'W)

August, 1944

Time	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	
00			2.8		2.8		00		3.0		3.0		00		3.0		3.0		3.0		3.0		3.0		3.0
01			2.6		2.6		01		3.0		3.0		01		3.0		3.0		3.0		3.0		3.0		3.0
02			2.4		2.4		02		3.0		3.0		02		3.0		3.0		3.0		3.0		3.0		3.0
03							03		3.2		3.2		03		3.2		3.2		3.2		3.2		3.2		3.2
04							04		3.2		3.2		04		3.2		3.2		3.2		3.2		3.2		3.2
05							05		3.0		3.0		05		3.0		3.0		3.0		3.0		3.0		3.0
06							06		4.47		4.47		06		4.47		4.47		4.47		4.47		4.47		4.47
07							07		3.0		3.0		07		3.0		3.0		3.0		3.0		3.0		3.0
08							08		4.5		4.5		08		4.5		4.5		4.5		4.5		4.5		4.5
09							09		5.61		5.61		09		5.61		5.61		5.61		5.61		5.61		5.61
10							10		5.0		5.0		10		5.0		5.0		5.0		5.0		5.0		5.0
11							11		4.6		4.6		11		4.6		4.6		4.6		4.6		4.6		4.6
12							12		4.4		4.4		12		4.4		4.4		4.4		4.4		4.4		4.4
13							13		4.4		4.4		13		4.4		4.4		4.4		4.4		4.4		4.4
14							14		4.6		4.6		14		4.6		4.6		4.6		4.6		4.6		4.6
15							15		4.6		4.6		15		4.6		4.6		4.6		4.6		4.6		4.6
16							16		4.5		4.5		16		4.5		4.5		4.5		4.5		4.5		4.5
17							17		5.5		5.5		17		5.5		5.5		5.5		5.5		5.5		5.5
18							18		4.7		4.7		18		4.7		4.7		4.7		4.7		4.7		4.7
19							19		4.0		4.0		19		4.0		4.0		4.0		4.0		4.0		4.0
20							20		3.7		3.7		20		3.7		3.7		3.7		3.7		3.7		3.7
21							21		3.2		3.2		21		3.2		3.2		3.2		3.2		3.2		3.2
22							22		3.2		3.2		22		3.2		3.2		3.2		3.2		3.2		3.2
23							23		3.0		3.0		23		3.0		3.0		3.0		3.0		3.0		3.0

Time: 1500W.
Length of time sweep: 2 Mo to 16 Mo in one minute.

Table 28

(Corrections and additions to previously issued provisional data)

Trinidad, British West Indies (10°6.5'N, 61°3'W)

August, 1944

Time	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	h°F2	f°F2	h°F1	f°F1	h°E	f°E	
00			2.8		2.8		00		3.0		3.0		00		3.0		3.0		3.0		3.0		3.0		3.0
01			2.6		2.6		01		3.0		3.0		01		3.0		3.0		3.0		3.0		3.0		3.0
02			2.4		2.4		02		3.0		3.0		02		3.0		3.0		3.0		3.0		3.0		3.0
03							03		3.2		3.2		03		3.2		3.2		3.2		3.2		3.2		3.2
04							04		3.2		3.2		04		3.2		3.2		3.2		3.2		3.2		3.2
05							05		3.0		3.0		05		3.0		3.0		3.0		3.0		3.0		3.0
06							06		4.47		4.47		06		4.47		4.47		4.47		4.47		4.47		4.47
07							07		3.0		3.0		07		3.0		3.0		3.0		3.0		3.0		3.0
08							08		4.5		4.5		08		4.5		4.5		4.5		4.5		4.5		4.5
09							09		5.61		5.61		09		5.61		5.61		5.61		5.61		5.61		5.61
10							10		5.0		5.0		10		5.0										

(Corrections and additions to previously issued provisional data)

Buanayo, Peru (12°0'S, 75.3°W)

August, 1944

(Corrections to previously issued provisional data)

Kermadec Island (29°25'S, 177.9°W)

August, 1944

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$
00							
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Time: 75°W.
Length of time sweep: 16 Mc to 0.5 Mc in fifteen minutes.

Table 31

(Corrections and additions to previously issued provisional data)

Christchurch, N.Z. (43°5'S, 172.6°E).

August, 1944

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$
00							
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Time: 172.5°E.
Length of time sweep: 2.5 Mc to 12 Mc in two minutes.

(Corrections to previously issued provisional data)

Kermadec Island (29°25'S, 177.9°W)

August, 1944

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$
00							
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Time: Local.

Time	h^*F2	f^*F2	h^*F1	f^*F1	h^*E	f^*E	$F2-M3000$
00							
01							
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							

Time: Local.

Table 5.
Tomsk, USSR (56°40'N, 85°00'E)

Time	h°F2	f°F2	h°N	f°N	h°E	f°E	F2-M3000
00	242	4°95					
01	245	4°55					
02	250	4°1					
03	250	3°8					
04	251	3°5					
05	252	3°6					
06	292	3°95	226	3°05	107	1°3	
07	326	4°2	220	3°4	107	2°2	
08	369	4°5	222	4°0	104	2°4	
09	397	4°6	226	3°2	104	2°7	
10	359	4°8	218	4°0	106	2°8	
11	363	5°0	210	4°1	102	2°9	
12	382	6°1	209	4°3	104	3°2	
13	398	5°1	209	4°2	102	3°2	
14	362	5°2	216	4°25	102	3°3	
15	333	5°0	216	4°2	102	3°3	
16	339	4°9	203	4°1	101	3°1	
17	360	4°8	214	4°0	103	2°9	
18	331	4°7	213	3°35	107	2°7	
19	310	4°7	216	3°6	107	2°5	
20	291	4°7	232	3°4	109	2°2	
21	270	4°9	234	3°3	113	1°8	
22	246	5°05					
23	244	5°1					

Time: 105°E.

Time: 0°

Length of time sweep: Manual operation.

Table 34

Great Budlow, England (51°70'N, 0°50'E)
July, 1944

Time	h°F2	f°F2	h°N	f°N	h°E	f°E	F2-M3000	Time	fES
00	242	4°95						00	2°1
01	245	4°55						01	2°3
02	250	4°1						02	2°1
03	250	3°8						03	2°3
04	251	3°5						04	2°5
05	252	3°6						05	3°2
06	292	3°95	226	3°05	107	1°3		06	4°0
07	326	4°2	220	3°4	107	2°2		07	4°6
08	369	4°5	222	4°0	104	2°4		08	4°7
09	397	4°6	226	3°2	104	2°7		09	4°5
10	359	4°8	218	4°0	106	2°8		10	5°2
11	363	5°0	210	4°1	102	2°9		11	4°8
12	382	6°1	209	4°3	104	3°2		12	5°2
13	398	5°1	209	4°2	102	3°2		13	4°4
14	362	5°2	216	4°25	102	3°3		14	4°4
15	333	5°0	216	4°2	102	3°3		15	4°1
16	339	4°9	203	4°1	101	3°1		16	4°3
17	360	4°8	214	4°0	103	2°9		17	4°3
18	331	4°7	213	3°35	107	2°7		18	4°5
19	310	4°7	216	3°6	107	2°5		19	4°3
20	291	4°7	232	3°4	109	2°2		20	3°8
21	270	4°9	234	3°3	113	1°8		21	3°8
22	246	5°05						22	3°1
23	244	5°1						23	2°9

Table 35

(Corrections to data previously issued
in "Ionospheric Data", issued August 1944)

Baton Rouge, Louisiana (30.5°N, 91.2°W)
July, 1944

Table 36

Delhi, India (28.6°N, 77.2°E)
July, 1944

Table 37

Brisbane, Q., Australia (27.5°S, 153.0°E)
July, 1944

Time	F2-M3000
00	3.0
01	3.0
02	3.1
03	3.1
04	3.1
05	3.2
06	3.2
07	3.0
08	3.1
09	3.0
10	3.1
11	3.0
12	3.0
13	2.9
14	3.0
15	3.0
16	3.1
17	3.2
18	3.2
19	3.2
20	3.3
21	3.2
22	3.1
23	3.0

Time	f ^o F2
00	3.54
01	3.61
02	3.50
03	3.32
04	3.17
05	3.34
06	4.22
07	5.28
08	5.90
09	6.27
10	6.76
11	7.07
12	7.03
13	7.50
14	7.64
15	7.51
16	7.06
17	6.75
18	6.65
19	6.70
20	5.78
21	5.42
22	4.52
23	4.15

Time	fEs
00	
01	
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	
12	3.0
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	

Time: 900W.

Length of time sweep: 1.9 Mc to 9.8 Mc in
three minutes, thirty seconds. Record
centered on the hour.

Time: 75°E.

Time: 150°E.
Length of time sweep: 2.2 Mc to 12.5 Mc in two
minutes, thirty seconds.

Table 38

Mt. Stromlo, N.S.W., Australia
(35.3°S, 149.0°E)
July, 1944

Time	fEs
00	
01	
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	3.8
12	3.9
13	4.3
14	4.0
15	4.0
16	
17	
18	
19	
20	
21	
22	
23	

Time: 150°E.

Length of time sweep: 1.6 Mc to
12.5 Mc in two minutes.

Table 39

Christchurch, N.Z. (43.5°S, 172.6°E)
July, 1944

Time	fEs
00	4.0
01	4.0
02	4.2
03	3.8
04	
05	
06	
07	
08	
09	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	

Time: 172.5°E.

Length of time sweep: 2.5 Mc to 12 Mc
in two minutes.

Table 40

Watheroo, Western Australia
(30.3°S, 115.9°E)
May, 1944

Time	fEs
00	2.9
01	2.9
02	2.8
03	2.8
04	2.9
05	2.9
06	2.9
07	2.8
08	2.9
09	3.1
10	3.1
11	3.7
12	3.4
13	3.5
14	3.8
15	3.1
16	3.2
17	3.0
18	3.0
19	2.9
20	2.8
21	2.8
22	2.8
23	2.8

Time: 120°E.

Length of time sweep: 16 Mc to
0.5 Mc in fifteen minutes.

TABLE 41
IONOSPHERE DATA:
Washington, D.C.

(Location) Ionosphere Station

National Bureau Of Standards
(Institution)

TIME: 75° W MERIDIAN
Hourly values of h_F in km for September 19th 4 (Month)

RECORDS MEASURED BY S.M.O.
H.P.G.

RESTRICTED

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean	
1	230	260	270	270	270	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	730	730	
2	230	290	320	300	280	290	290	290	320	320	340	360	360	360	360	360	360	360	360	360	360	360	360	360	2510	2510	
3	240	290	260	270	280	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	
4	240	280	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
5	260	280	280	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
6	260	260	270	260	260	260	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	
7	280	270	280	260	280	300	260	270	280	280	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	
8	260	250	260	260	270	280	260	260	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	
9	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
10	260	260	260	260	260	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	
11	260	270	280	270	270	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
12	280	280	280	280	280	300	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	290	
13	260	240	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
14	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
15	260	240	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
16	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
17	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	280	
18	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
19	260	280	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	
20	270	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
21	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
22	280	260	270	280	(300)	270	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
23	250	260	260	240	240	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
24	260	280	A	A	A	300	280	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260
25	260	270	260	260	270	380	260	220	210	280	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	
26	270	280	270	260	250	280	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
27	280	320	(320)	260	280	300	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
28	290	280	240	240	220	240	240	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
29	280	280	260	240	240	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
30	280	280	(310)	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	
31																											
Sum	7820	7860	7520	7280	7360	7970	7170	7040	7150	8900	8830	9510	9750	9520	9470	9180	8150	8000	7250	7000	7060	7320	7630	7670	193610		
Mean ¹	270	271	263	268	260	275	247	251	277	304	317	325	317	316	306	292	267	242	233	235	244	254	264	264	264	264	
Mean ²	270	270	266	258	262	274	246	249	275	302	320	315	312	301	287	264	240	234	235	244	254	264	264	264	264	264	
Median	260	270	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	

h^F_2

For all days of the month

September, 1944

Washington, D. C. I.C.N. 1940, page 103

TABLE 43
IONOSPHERE DATA-3

RESTRICTED

(Location) National Bureau Of Standards

TIME: 75°W MERIDIAN

Hourly values of h_{F_1} in km for September 1944 (Month)

Records measured by S.M.O.
H.P.G.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean				
1	2.20	2.10	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00					
2	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40					
3	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20					
4	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20					
5	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20					
6	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00					
7	2.10	2.20	2.10	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00					
8	2.20	2.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20					
9	2.40	2.60	2.50	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40					
10	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40					
11	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20					
12	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00					
13	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40					
14	C	C	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20				
15	2.30	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20				
16	2.00	2.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20				
17	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40				
18	2.20	2.10	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20				
19	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20				
20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20				
21	C	C	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00			
22	2.20	2.40	2.10	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20			
23	2.20	2.10	2.10	2.0	C	1.90	2.20	2.20	2.20	2.20	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00			
24	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20			
25	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20			
26	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20			
27	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20			
28	2.30	2.30	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20			
29	K	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20		
30																														
31																														
Sum	6880	6360	6350	5960	6170	6290	6550	6790	6790	5650	490																			
Mean ¹	222	220	219	218	216	206	206	210	210	210	210																			
Mean ²	220	219	219	216	216	206	206	208	208	208	208																			
Median	220	220	220	220	220	220	220	220	220	220	220																			

For all days of the month

For quiet days

h_{F_1}

September 1944

TABLE 44
IONOSPHERE DATA-4
RESTRICTED

Ionosphere Station
 National Bureau Of Standards

TIME: 75° W MERIDIAN

(Institution)

Day	Hourly values of f_1^o for September 1944 (Months)																								Mean	
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
1	3.4	3.8	4.0	4.1	4.3	4.4	4.3	4.3	4.2	3.9	3.7	K													4.4	
2	3.4 ^K	3.8 ^K	4.0 ^K	4.1 ^K (+1) ^K	4.2 ^K	3.8 ^K	3.3	2.7													4.5					
3	3.8	4.0	4.2 ^K	4.2	4.3	4.3	4.3	4.2	4.1	3.9	3.6														4.0	
4	3.4	3.9	4.1	4.2	4.3	4.2	4.2	4.2	4.2	4.0	3.5														4.4	
5	(3.9)	4.1	4.2 ^K	4.3	4.3 ^K	4.3	4.3 ^K	4.3 ^K	4.2 ^K	4.0	3.5														4.0	
6	3.5	3.8	4.0	4.3	4.3	4.3	4.3	4.3	4.2	4.1	3.8	3.5													4.4	
7		(3.5)	4.2	4.3	4.2	4.2	4.2	4.2	4.2	4.1	3.8	3.3													4.0	
8		(3.8)	3.3	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.0	3.5													4.3	
9		(3.7)	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.1	3.8	3.5												4.0	
10		(3.5)	3.8	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.9	(3.5)K												4.3	
11		(3.9)	3.9	4.2	4.2	4.3	4.3	4.3	4.2	4.1	3.9	3.5													4.4	
12		(3.7)H	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	(3.9)K												4.3	
13		C.	4.1	4.2	4.1	4.2	4.1	4.2	4.1	4.2	4.2	4.2	(+3)K												3.9	
14		C.	3.9	4.1	4.2	4.2	4.3	4.2	4.2	4.2	4.0	3.7	(3.2)K												3.5	
15		C.	3.9	4.0	4.1	(+1)	(+1)	(+1)	(+1)	(+1)	(+1)	(+1)	(+1)													3.6
16		C.	3.7	4.1	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	3.6	
17		C.	3.0	3.7	(4.0)	(+2)H	(+2)H	3.6																		
18		C.	3.4	3.8	(4.1)H	(4.1)H	3.8																			
19		C.	3.7	3.9	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.9	
20		C.	3.6	3.9	4.1	4.2	4.2	4.3	4.3	4.3	4.2	4.2	4.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.6	
21		C.	3.7	4.0	4.1	4.2	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.6	
22		C.	3.7	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.6	
23		C.	3.8	4.0	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.6	
24		C.	3.7H	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.6	
25		C.	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.6	
26		C.	3.6	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.6	
27		C.	3.7	3.9	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	(4.2)	3.6	
28		C.	3.7	3.9	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.6	
29		C.	(3.7)K	4.0 ^K	4.0 ^K	4.2 ^K	3.6																			
30		C.	3.20	3.93	1.156	1.241	1.255	1.268	1.263	1.247	1.208	1.094	54.5	2.7												3.5
31		C.	3.20	3.72	3.99	4.14	4.18	4.28	4.21	4.16	4.03	3.77	3.41	2.70												3.5
	Sum		3.20	3.72	3.99	4.14	4.18	4.28	4.21	4.16	4.03	3.77	3.41	2.70												3.5
	Mean ¹																									3.5
	Mean ²																									3.5
	Median																									3.5

¹For all days of the month

²For quiet days

f_1^o
September, 1944

Records measured by S.M.O.
H.P.G.

TABLE 45
IONOSPHERE DATA-5

Washington, D. C. Ionosphere Station

(Institution) National Bureau Of Standards

TIME: 75° W MERIDIAN

RESTRICTED

1944 September 1944

(Month)

Hourly values of $\frac{h}{E}$ in km for September 1944

(Month)

1944

Year

1944

TABLE 46
IONOSPHERE DATA-6

Washington, D.C. Ionosphere Station

(Location) National Bureau Of Standards

TIME: 75°W MERIDIAN

Hourly values of $f^o E_{in \frac{m}{sec}}$ for September 1944 (Month)

Records measured by S.M.O.
H.P.G.

RESTRICTED

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean								
1									A	(2.6) A	(3.2) A	3.3	3.3	A	A	3.0	[2.7] A	(2.4) K							23.5									
2									1.7 K	2.3 K	(2.0) K	B K	C K	A K	[3.2] K	(3.2) K	2.8 K	(2.2)	1.7							25.8								
3									1.7	2.3	(2.6)	2.7	A	A	A	(3.2)	(3.1)	(2.9)	2.3	(1.8)							22.6							
4									A	A	A	A	A	(3.3)	3.3	[3.7] C	[3.0] H	[2.7] B	2.3	A						20.9								
5									(2.3)	(3.7)	2.9	(3.7) A	A	C	A	(3.1)	(2.7)	2.6	2.2							21.6								
6									1.7	2.4	(2.8)	(3.7) A	(3.7) B	(3.2)	(3.3)	3.2	3.0	2.7	(2.1)	(1.8)							35.4							
7									(1.5)	(2.3) A	(2.6)	2.9	3.1	(3.7) B	3.2	3.1	3.0	2.7	2.3	(1.8)							34.8							
8									(2.3)	2.6	(2.7)	(2.8) A	(3.0) A	(3.2)	C	A	A	(2.8)	2.3	1.8							23.5							
9									1.5	2.2	2.5	(2.8)	(3.1)	3.0	[3.2] A	3.3	[3.2] A	(3.0)	2.7	2.3	1.8							34.0						
10									(1.4)	(2.2) A	(2.6)	(2.8)	(3.7) C	(3.2) A	(3.7) A	(3.1)	3.2	3.0	2.7	2.2	K							32.8						
11									(2.2) F	(2.7)	2.9	(3.1)	(3.2)	3.3	[3.2] A	(3.0) B	2.7	(2.2)	A							31.7								
12									(2.2) F	2.6	(2.9)	(3.7) A	(3.3)	(3.3)	3.3	(3.1)	2.9	2.6	(2.2)							31.5								
13									2.2	2.7	(3.0)	3.2	(3.3)	B	B	B	A	A	2.3							16.7								
14									C	C	3.0	3.2	(3.3)	(3.2)	(3.2)	(3.2)	(3.2)	B	B	(2.7)	A							18.6						
15									2.2	2.7	A	A	A	A	A	[3.1] B	(3.1)	(2.3)	A							22.1								
16									2.2	2.7	B	B	(3.2)	3.3	(3.3)	(3.1)	[2.7] B	(2.7)	2.2	H							25.6							
17									(2.2)	(2.7)	2.9	3.0	(2.9)	A	A	(3.1) G	[3.0] A	2.7	(2.1)							24.6								
18									2.0	(2.8) B	B	B	B	B	B	B	B	B	(2.6)	(2.0)						22.3								
19									(2.2)	2.6	B	B	B	(3.1)	B	B	B	B	(2.7)	(2.2)						15.7								
20									2.1	2.5	(2.7)	B	B	B	B	B	B	B	[2.7] B	2.1						12.1								
21									C	C	C	B	B	(3.1)	B	C	(2.9)	(2.7)	2.1							10.5								
22									(1.9)	2.4	2.7	(2.9) A	B	B	B	B	A	A	2.5	2.1	(1.5)							16.0						
23									A	(2.6)	(2.7) B	(3.0)	C	B	(3.0)	B	B	B	2.4	2.1									13.0					
24									C	1.9 H	2.4	(2.6)	2.9	B	B	(3.0)	(2.9)	[2.8] B	4.5	(1.9)									22.5					
25									2.0	2.4	(2.7) B	B	B	B	C	B	B	B	2.5	1.8									11.4					
26									A	A	A	A	A	(3.1) B	(3.0)	(2.7)	2.3	1.9	H										10.1					
27									1.9 H	2.4	(2.8) B	(3.0) A	(3.1) B	B	B	C	2.8	2.5	2.1										20.0					
28									2.1 H	2.4	(2.7)	B	A	(3.1) B	(3.1) B	(2.8) B	2.5	(1.9)											13.5					
29									[1.8] A	A	A	A	B	B	B	B	B	B	2.6	1.8	H									9.0				
30									K	2.5 K	(2.7) K	B K	B K	B K	B K	B K	B K	B K	(2.9) K	2.4	A									10.0				
31									9.5	51.9	64.8	62.1	48.9	44.2	51.4	47.7	49.7	67.2	76.2	59.7	1/2										44.5			
Sum									15.8	21.6	25.9	28.2	3.06	3.16	3.21	3.18	3.11	2.92	2.63	2.13	1.74													
Mean ¹									1.56	2.14	2.59	2.82	3.06	3.16	3.21	3.18	3.10	2.92	2.62	2.12	1.74													
Mean ²																																		
Median										2.2	2.6	2.8	3.1	3.2	3.2	3.2	3.2	3.1	2.9	2.7	2.2													

For all days of the month

For quiet days

September, 1944

$f^o E$

Washington, D. C.
Ionosphere Station
(Location)
National Bureau Of Standards
(Institution)

TIME: 75° W MERIDIAN

Hourly values of F2-M1500 for September 1944
(Month)

RESTRICTED
IONOSPHERE DATA-8
Records measured by: S. M. O.
H. P. G.

For quiet days

Hourly values of F2-M1500 for September 1944
(Month)

Ionosphere Station

Hourly values of F2-M1500 for September 1944
(Month)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean
1	1.92	2.00	1.98	2.04 ^F	1.91	A	2.0	2.20	2.30	2.10	2.03	1.97	2.01	2.00	2.02	2.03 ^K	2.00 ^K	1.98 ^K	1.98 ^K	2.01 ^K	1.95 ^K	2.01 ^K	1.93 ^K	2.01 ^K	1.96 ^K	
2	1.93 ^N	1.97 ^K	1.95 ^K	1.93 ^K	1.95 ^K	1.96 ^K	1.97 ^K	1.98 ^K	1.95 ^K	1.92 ^K	1.97 ^K	1.92 ^K	1.93 ^K	1.95 ^K	1.92 ^K	1.96 ^K										
3	1.88 ^F	1.95 ^F	1.91 ^F	2.00 ^F	2.11 ^F	2.48	2.20	2.10	2.12	2.17	2.09	2.11	2.30	2.03	2.22	2.19	2.12	2.06	2.12	2.03	2.11	2.11	2.11	2.11	1.93 ^K	
4	1.95 ^F	1.97 ^F	1.97 ^F	2.00 ^F	1.93 ^F	1.96 ^F	2.31	2.24	2.24	2.19	2.11	2.11	2.30	1.92	1.85	2.01	1.90	2.01	2.07	2.11	2.19	2.13	2.23 ^F	2.23 ^F	2.23 ^F	1.93 ^K
5	2.00 ^F	1.99 ^F	2.05 ^F	2.06	2.20	2.15 ^F	2.28 ^F	2.32	2.20	2.19	2.25	2.15	C	2.29	2.02	2.11	2.11	2.22	2.15	2.18	2.10	2.15	2.15	2.12	2.12	1.93 ^K
6	2.01	2.10	2.20 ^F	1.94 ^F	2.00 ^F	2.13 ^F	2.35	2.38	2.25	2.29	2.21	2.15	2.14	2.10	2.29	2.05	2.05	1.99	1.97	2.01	2.00	2.17	2.23	2.00	1.97	50.93
7	1.97	1.89	1.92	1.87	1.95 ^F	1.91	2.19	2.42	2.23	1.65	2.07	2.10	2.01	2.06	1.95	2.11	2.17	2.16	2.32	2.27	2.10	2.04	2.04	2.10	2.10	1.97
8	2.06 ^F	2.05	2.00 ^F	2.05 ^F	2.01 ^F	2.35	2.43	2.12	2.08	1.97	2.57	2.12	C	2.05	1.87	2.01	2.03	2.10	2.11	2.14 ^F	2.11 ^F	2.26 ^F	2.19 ^F	2.19 ^F	2.19 ^F	1.93 ^K
9	1.74 ^F	2.07 ^F	1.95	1.96 ^F	2.05 ^F	2.11 ^F	2.30	2.40	2.40	2.40	2.20	2.14	2.38	2.37	2.00	2.15	2.03	2.09	2.11	2.19	2.12	2.20	2.10	2.01	1.93 ^K	
10	1.75	1.76	2.17 ^F	2.03 ^F	1.76 ^F	1.85 ^F	2.12	2.21	2.27	2.13	2.17	1.97	2.06	2.27	2.08	2.02	1.97	2.07 ^K	2.10 ^K	1.93 ^K						
11	2.26 ^F	1.92 ^F	1.77 ^F	1.95 ^F	2.25 ^F	2.22 ^F	2.23 ^F	2.17	2.22	2.10	2.26	2.17	2.37	2.37	2.04	2.05	2.16	2.21	2.21	2.20	2.17	2.17	2.07	2.07	1.93 ^K	
12	1.93	1.95	1.97	2.02	1.89 ^F	A	2.19	2.38	2.30	2.23	2.36	2.21	2.15	2.03	1.70	2.10	2.10	2.13	2.30	2.30	2.25	2.18	2.02	1.97	1.97	1.93 ^K
13	2.00	2.07	1.77	2.03	2.27 ^F	2.10 ^F	2.20	2.38	2.20	2.15	2.30	2.16	2.07	2.04	2.17	2.12	2.22	2.27	2.15	2.11	2.25	2.08	2.03	2.03	1.93 ^K	
14	2.01	2.03	2.10	1.98	1.98	2.08 ^F	2.08 ^F	2.17	C	2.0	2.22	2.12	2.13	2.15	2.16	2.27	2.17	2.26	2.26	2.26	2.26	2.10	2.06	2.03	1.93 ^K	
15	2.05	2.24	2.00	1.93	2.08	2.17	2.27	2.27	2.27	2.10	2.22	2.27	2.37	2.27	2.10	2.25	2.35	2.35	2.25	2.25	2.25	2.25	2.00	2.04	1.93 ^K	
16	2.03	2.21	2.13	2.30	2.24	2.40	2.44 ^F	2.48	2.30	2.23	2.36	2.21	2.17	2.15	2.28	2.22	2.20	2.15	2.24	2.20	2.15	2.11	2.11	2.11	2.11	1.93 ^K
17	2.00	2.06	2.18	2.15	2.10	2.24	2.29	2.29	2.25	2.26	2.26	2.18	2.13	2.12	2.11	2.23	2.27	2.14	2.20	2.19	2.12	2.05	2.01	2.01	1.93 ^K	
18	2.00	2.05	2.00	1.96	1.77	1.93	2.29	C	2.24	2.30	2.30	2.15	2.15	2.11	2.10	2.21	2.21	2.27	2.16	2.19	2.12	2.05	2.01	1.93 ^K		
19	2.00	1.91	1.91	1.97	2.04	2.05 ^F	2.16 ^F	2.40	2.25 ^F	2.43	2.39	2.22	2.28	2.16	2.10	2.13	2.06	2.21	2.20	2.34	2.37	2.30	2.11	2.07	1.93 ^K	
20	2.02	1.99	1.93	2.14 ^F	2.10	2.29	2.59	2.49	2.49	2.36	2.16	2.13	2.15	2.07	2.07	2.17	2.13	2.33	2.11	2.25	2.00	2.04	2.04	2.04	1.93 ^K	
21	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	1.93 ^K	
22	1.75	2.01	2.15 ^F	2.00 ^F	2.10 ^F	2.24	2.30	2.21	2.06	2.27	2.17	2.13	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	1.93 ^K	
23	2.07	2.04	2.13	2.21	2.21	2.36	2.30	2.50	2.40	2.22 ^F	2.40	2.39	2.22	2.28	2.16	2.10	2.13	2.10	2.08	2.08	2.08	2.08	2.08	2.08	1.93 ^K	
24	1.70	2.00	A.	A	A	2.26 ^F	2.28 ^F	2.27	2.33	2.21	2.20	2.20	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	1.93 ^K	
25	2.05 ^F	1.91	2.01	1.95 ^F	2.07 ^F	1.78 ^F	2.30	2.35	2.14	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	2.12	1.93 ^K	
26	2.04	1.97	2.03 ^F	2.00	1.95 ^F	2.36	2.20	2.21	2.12	2.12	2.11	2.10	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	1.93 ^K	
27	2.02	1.93 ^F	2.04 ^F	2.00	1.97	2.03	2.17	2.40	2.17	2.13	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	1.93 ^K	
28	1.15	1.18	2.07 ^F	2.12	2.21 ^F	2.25 ^F	2.20	2.32	2.54	2.27	2.24	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	1.93 ^K	
29	1.92	1.97	2.01	2.11	2.05	1.97	2.18	2.25	2.22	2.38	2.27	2.33	1.77	2.23	2.11	2.17	2.15	2.26	2.31	2.27	2.27	2.27	2.27	2.27	2.27	1.93 ^K
30	1.98	1.84	1.91	2.03	1.96	2.00	2.10	2.10	2.38	2.17	2.07 ^F	2.17	1.52	1.83 ^K	1.78 ^K	1.78 ^K	1.78 ^K	2.10	2.07	2.07	2.07	2.07	2.07	2.07	2.07	1.93 ^K
31																										
Sum	57.84	57.62	56.86	56.67	57.23	56.14	55.72	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27	56.27		
Mean ¹	1.99	1.99	2.02	2.04	2.08	2.27	2.30	2.28	2.17	2.15	2.12	2.08	2.08	2.08	2.08	2.08	2.08	2.15	2.18	2.18	2.18	2.18	2.18	2.18	2.03	
Mean ²	1.78	1.77	2.05	2.03	2.08	2.27	2.32	2.28	2.18	2.15	2.10	2.08	2.08	2.08	2.08	2.08	2.08	2.10	2.12	2.12	2.12	2.12	2.12	2.12	2.03	
Median	2.00	1.97	2.01	2.02	2.05	2.10	2.24	2.30	2.24	2.20	2.17	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.03	

For all days of the month

For quiet days

F2-M1500

September, 1944

Washington, D. C.
 Ionosphere Station
 (Location)

TABLE 49
IONOSPHERE DATA - 9

National Bureau Of Standards
 (Institution)
TIME: 75° W MERIDIAN

Hourly values of F2-M3000 or September 1944
 (Month)

Records measured by: S. M. O.
 H. P. G.

RESTRICTED

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean		
1	2.65	3.03	2.75	3.04 ^a	2.94	1.7	3.10	3.29	3.40	3.14	3.03	3.00	3.05	3.02	3.00	3.08	3.08 ^a	3.02 ^a	3.08 ^a	3.01 ^a	3.01 ^a	3.01 ^a	3.01 ^a	2.88 ^a	31.18 ^a	7.0	15	
2	3.13 ^a	3.00 ^a	2.82 ^a	(3.02)	(3.01)	(2.92)	3.24 ^a	3.27 ^a	3.20 ^a	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	(2.67)	2.67	6.9	17	
3	2.82 ^a	2.99 ^a	(3.12)	(3.00)	(3.01)	(3.01)	3.53	3.28	3.12	3.20	(3.23)	3.12	3.06	3.01	3.04	3.32	3.16	3.20	3.23	(3.05)	(3.20)	3.20	3.20	3.20	3.20	3.20	7.545	
4	(2.97)	(2.95)	(3.15)	(3.07)	(3.07)	(2.82)	(2.91)	3.47	3.32	3.41	3.30	3.19	3.40	2.90	2.83	3.02	3.07	3.12	3.28	3.20	3.20	3.20	3.20	3.20	3.20	3.20	7.172	
5	3.05 ^a	3.02 ^a	3.19 ^a	3.12	3.25	3.19 ^a	3.46 ^a	3.35	3.29	3.21	3.30	3.16	C	3.11	3.11	3.13	3.17	3.30	3.20	(3.68)	3.20	3.12	3.21	3.21	3.21	7.327		
6	3.06	3.12	3.23 ^a	2.94 ^a	3.03 ^a	3.19 ^a	3.49	3.33	3.40	3.29	3.20	3.25	3.10	2.87	3.17	2.98	3.00	(3.02)	3.20	3.20	3.20	3.20	3.20	3.20	3.20	7.552		
7	3.00	2.87	2.82	2.47	(2.99)	2.89	3.21	3.48	3.39	2.50	3.10	3.15	3.01	3.11	2.95	3.16	3.21	3.22	3.42	3.29	3.12	3.03	3.10	3.13	3.13	7.362		
8	3.10 ^a	3.11	3.00 ^a	3.07 ^a	3.05 ^a	3.04 ^a	3.48	(3.51)	3.17	3.11	2.96	3.10	3.20	-	3.12	2.80	3.06	3.05	3.13	3.28	3.11 ^a	3.11 ^a	3.19 ^a	3.19 ^a	3.19 ^a	3.19 ^a	3.19 ^a	7.211
9	(2.99)	3.10 ^a	2.90	2.98 ^a	3.08 ^a	3.16 ^a	3.35	3.41	3.49	3.24	3.19	3.12	3.13	3.02	3.14	3.06	3.17	3.20	3.20	3.17	3.25	3.18	3.10	3.01	3.01	7.559		
10	3.00	2.95	3.29 ^a	3.02 ^a	(3.01)	(2.81)	(2.81)	(2.81)	(3.24)	(3.24)	(3.18)	(3.40)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	(3.10)	7.437		
11	(3.31)	(2.86)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	(2.97)	7.488		
12	2.94 ^a	3.99	2.97	(3.10)	2.83 ^a	A	3.24	3.46	3.38	3.39	3.08	(3.31)	3.24	3.08	3.08	3.15	3.12	3.12	3.40	3.20	3.20	3.11	3.01	3.01	3.01	7.47		
13	2.96	3.10	2.98	3.05	3.00 ^a	3.16 ^a	3.23	3.21	(3.42)	3.25	3.20	3.39	3.05	3.17	3.10	3.23	3.27	3.25	3.02	3.20	3.15	3.32	3.10	3.08	3.08	7.589		
14	3.03	3.10	3.11	3.00	3.00	3.08 ^a	3.19	C	C	3.49	3.50	3.22	3.08	3.21	3.21	3.31	3.54	3.30	3.31	(3.32)	3.10	3.07	3.07	3.07	7.025			
15	3.14	3.08	2.99	2.92	3.10	3.20	3.30	3.49	(3.45)	3.30	3.05	3.36	3.41	3.10	3.24	3.38	3.38	3.42	3.27	3.15	3.30	2.93	3.01	3.01	7.705			
16	3.09	3.65	3.21	3.16	3.42	3.25	3.47	3.50	3.51	(3.32)	(2.89)	3.30	3.20	3.21	3.29	3.20	(3.31)	3.30	3.23	3.17	3.00	3.12	3.09	3.20	7.759			
17	3.05	3.13	3.25	3.21	3.16	3.11 ^a	3.51	(3.34)	(3.24)	3.43	(3.30)	3.40	3.24	3.22	(3.20)	3.14	3.15	3.11	(3.39)	3.12	3.25	2.95	2.96	3.09	7.695			
18	3.03	3.03	3.00	2.95	3.00	2.92	3.39	C	(3.30)	(3.11)	(3.38)	(3.31)	3.21	3.29	3.15	3.21	3.12	3.31	3.30	3.20	3.24	3.13	3.10	3.07	7.274			
19	2.99	2.88	2.98	3.14	3.05 ^a	(2.81)	3.47	3.30	3.39	3.47	3.47	3.30	3.39	3.22	3.18	3.04	3.29	3.21	3.39	3.45	3.30	3.30	3.18	3.30	3.18	7.725		
20	3.05	3.02	2.89	3.20 ^a	3.20	3.41	(3.68)	(3.68)	(3.68)	(3.59)	(3.42)	(3.21)	(3.19)	(3.21)	(3.15)	(3.13)	(3.15)	(3.15)	(3.15)	(3.15)	(3.15)	(3.15)	(3.15)	(3.15)	(3.15)	7.425		
21	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	3.25	3.24	(3.12)	3.22	3.19	3.28	3.24	3.10	3.14	3.05	44.54		
22	2.94	3.01	3.22 ^a	3.05 ^a	3.20	3.20	3.29	3.40	3.40	3.40	3.40	3.69	3.00	3.07	3.15	3.24	3.22	3.20	3.10	3.12	3.05	2.94	2.92	3.08	7.526			
23	3.01	3.07	3.20	3.00	(3.05)	(3.31)	3.37	3.63	3.48	(3.31)	(3.48)	3.47	3.30	3.39	3.30	3.09	3.20	3.19	3.20	3.19	3.20	3.19	3.20	3.20	7.328			
24	2.88	3.02	F	A	3.10	3.10	3.29	2.90	3.05	3.31	3.20	3.30	3.20	3.07	3.31	3.21	3.14	3.14	3.22	3.29	3.06	3.06	3.06	3.06	6.558			
25	3.03 ^a	2.90	3.05	3.00 ^a	3.10 ^a	(2.76)	3.26	3.40	3.23	3.45	3.30	3.26	3.24	C	3.19	3.29	3.22	3.29	3.24	3.24	3.22	3.22	3.22	3.22	3.22	7.255		
26	3.10	2.98	3.10	3.00 ^a	3.09 ^a	2.98 ^a	3.32	3.27	3.30	3.18	(3.40)	3.09	3.11	3.16	3.14	3.29	3.23	3.30	3.33	3.26	3.26	3.26	3.26	3.26	7.580			
27	3.04	2.93 ^a	3.05 ^a	3.00	2.95	3.04	3.22	3.41	(3.25)	3.17	3.15	3.06	3.18	3.17	C	3.07	3.08	3.22	3.35	3.13	3.27	3.11	2.90	2.95	7.170			
28	2.90	3.04	3.10 ^a	3.20	3.20	3.38	3.69	3.35	3.32	3.21	3.17	3.20	3.19	3.17	3.42	3.35	3.41	3.24	3.21	3.04	3.00	3.02	7.729					
29	2.90	2.96	3.05 ^a	3.13	3.00	2.96	(3.22)	3.30	3.23	(3.46)	3.31	3.42	3.00	3.30	3.14	3.22	3.17	3.32	3.38	3.24	3.24	3.03	3.00	3.00	7.579			
30	3.00	2.82	2.89	3.10	2.96	3.02	3.26 ^a	3.19 ^a	3.19 ^a	2.97 ^a	6.632																	
31																												
Sum	87.36	87.11	85.47	84.81	85.61	83.83	91.20	90.86	93.74	93.46	92.97	92.05	90.53	87.50	86.97	93.89	95.29	97.08	96.83	95.70	94.39	92.77	88.76	85.76	2177.32			
Mean ¹	3.01	3.00	3.04	3.03	3.06	3.09	3.32	3.36	3.22	3.20	3.20	3.17	3.12	3.11	3.13	3.23	3.23	3.19	3.15	3.09	3.06	3.06	3.06	3.06				
Mean ²	2.99	3.01	3.07	3.04	3.06	3.10	3.32	3.38	3.24	3.22	3.22	3.15	3.14	3.12	3.12	3.22	3.22	3.24	3.24	3.24	3.24	3.24	3.24	3.24				
Median	3.00	3.02	3.05	3.03	3.06	3.11	3.29	3.35	3.32	3.24	3.23	3.20	3.13	3.12	3.12	3.15	3.17	3.22	3.22	3.22	3.22	3.22	3.22	3.22				

¹For all days of the month

²For quiet days

September, 1944

TABLE 50
IONOSPHERE DATA-10

(Location) Washington, D.C.

Ionosphere Station

RESTRICTED

National Bureau Of Standards
(Institution)

TIME: 75° W MERIDIAN

Hourly values of F2-M3500 for September, 1944.
(Month)

Records measured by: S.M.G.

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean
1	3.1/	3.20	3.15	3.28 ^f	3.05	A	3.30	3.46	3.60	3.29	3.24	3.17	3.28	3.22	3.20	3.21	3.25	3.20 ^f	74.56							
2	3.30 ^f	3.22 ^f	(3.30 ^f)	G	K	(2.97) ^f	(2.89) ^f	(3.00) ^f	(3.17) ^f	3.00 ^f	3.01 ^f	3.08 ^f	3.20	3.30	3.31	3.19	3.35 ^f	3.37 ^f								
3	3.00 ^f	3.15 ^f	3.43 ^f	(3.22) ^f	(3.30) ^f	3.43	3.35	3.37	(3.41)	3.30	3.21	3.25	3.22	3.25	3.49	3.41	3.40	3.41	3.41	3.42 ^f	73.84					
4	(3.10) ^f	(3.15) ^f	(3.39) ^f	(3.30) ^f	(3.29) ^f	(3.16) ^f	3.55	3.50	3.60	3.37	3.50	3.10	3.04	C	3.28	3.10	3.26	3.32	3.26	3.45	3.45	3.45	3.45	3.45	3.45	3.45
5	3.21 ^f	3.23 ^f	3.40 ^f	3.29	3.41	3.47 ^f	3.55 ^f	3.46	3.46	3.45	3.28	C	3.31	3.27	3.31	3.31	3.45	3.34	3.40	3.40	3.40	3.40	3.40	3.40	76.33	
6	3.21	3.32	3.47 ^f	3.11 ^f	(3.25) ^f	(3.35) ^f	3.58	3.65	3.49	3.45	3.42	3.38	3.29	3.09	3.30	3.15	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	77.36	
7	3.19	3.10	3.10	3.05	(3.17) ^f	3.06	3.40	3.65	3.59	2.71	3.30	3.34	3.22	3.30	3.14	3.41	3.40	3.38	3.47	3.47	3.47	3.47	3.47	3.47	78.48	
8	3.10 ^f	3.20 ^f	3.20 ^f	3.24 ^f	3.24 ^f	3.29 ^f	3.65	(3.70)	3.36	3.28	3.20	3.27	3.40	C	3.25	3.05	3.21	3.29	3.29	3.45	3.45	3.45	3.45	3.45	3.45	76.28
9	(3.02) ^f	3.30 ^f	3.04	3.17 ^f	3.21 ^f	3.32	3.63	3.50	3.67	3.41	3.36	3.30	3.29	3.20	3.27	3.27	3.27	3.27	3.38	3.38	3.38	3.38	3.38	3.38	79.75	
10	3/2	3/4	3.42 ^f	3.22 ^f	(3.19) ^f	(3.09) ^f	3.42	3.49	3.40	3.40	(3.19)	3.31	3.30	3.29	3.24	3.24	3.23	3.23	3.23	3.31 ^f						
11	(3.50) ^f	(3.10) ^f	2.88 ^f	(3.10) ^f	(2.79) ^f	(3.44) ^f	(3.48) ^f	(3.40)	3.24	3.30	3.58	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	78.77	
12	3/0	3/2	3/16	(3.29)	3.00 ^f	A	3.43	3.60	3.50	3.50	3.24	(3.50)	3.41	3.29	3.16	3.29	3.30	3.33	3.54 ^f	3.40	3.40	3.40	3.40	3.40	3.40	76.34
13	3/19	3.25	3.20	3.25	3.30 ^f	3.38	3.40	(3.60)	3.45	3.39	3.56	3.25	3.31	3.30	3.30	3.42	3.30	3.45	3.19	3.32	3.32	3.32	3.32	3.32	3.32	
14	3.25	3.24	3.30	3.16	3.14	(3.30) ^f	3.41	C	3.64	3.64	3.46	3.39	3.24	3.40	3.41	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48		
15	3/31	3.22	3/19	3/12	3/30	3.38	3.47	3.69	(3.70)	(3.43)	3.25	3.50	3.55	(3.34)	3.41	3.50	3.53	3.53	3.45	3.45	3.45	3.45	3.45	3.45	3.45	
16	3.29	3.21	3.38	3.37	3.56	3.40	3.59	3.72	3.74	(3.44)	3.24	3.27	3.27	3.27	3.19	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	79.48		
17	3.20	3.27	3.40	3.40	3.30	3.35 ^f	3.50	3.60	3.60	3.50	3.24	(3.50)	3.41	3.29	3.16	3.29	3.30	3.33	3.54 ^f	3.40	3.40	3.40	3.40	3.40	3.40	
18	3/11	3.24	3.19	3/11	3/18	3/10	3.57	C	(3.44)	(3.30)	(3.50)	(3.50)	3.40	3.43	3.30	3.40	3.40	3.40	3.42	3.42	3.42	3.42	3.42	3.42	3.42	
19	3.31	3.07	(3.20)	3.30	3.14	(3.30) ^f	3.41	C	3.64	3.64	3.46	3.39	3.24	3.40	3.41	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48		
20	3/21	3.21	3/10	(3.40) ^f	3.40	3.60	(3.61)	3.72	(3.68)	3.60	(3.40)	3.38	3.41	3.36	3.29	3.29	3.36	3.33	3.47	3.47	3.47	3.47	3.47	3.47	3.47	
21	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	3.41	3.39	3.39	3.39	3.39	3.39	3.39	81.67	
22	3/11	3.20	3.40 ^f	3.35 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f								
23	3.28	3.22	3.40	3.45	(3.20)	(3.52)	3.49	3.75	3.64	3.64	3.54	3.23	3.19	3.19	3.23	3.23	3.29	3.32	3.42	3.42	3.42	3.42	3.42	3.42	76.59	
24	3.07	3.20	A	A	(3.30) ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f	3.40 ^f			
25	3.21	3.11	3.24	3.20 ^f	3.27 ^f	(2.89) ^f	3.41	3.60	3.40	3.62	3.47	3.40	3.41	C	3.39	3.48	3.41	3.49	3.43	3.47	3.47	3.47	3.47	3.47	3.47	
26	3.27	3.18	3.30 ^f	3.20 ^f	3.20 ^f	3.12 ^f	3.50	3.45	3.49	3.59	3.27	3.29	3.30	3.37	3.46	3.40	3.45	3.53	3.43	3.47	3.47	3.47	3.47	3.47		
27	3.26	3.16	3.10 ^f	3.22 ^f	3.18	3.12	3.21	3.40	3.60	(3.43)	3.35	3.21	3.40	3.32	C	3.23	3.25	3.40	3.50	3.27	3.43	3.28	3.10	3.14	75.75	
28	3/13	3.21	3.32 ^f	3.39	3.40 ^f	(3.49) ^f	3.34	3.49	3.80	3.47	3.37	3.37	3.38	3.32	3.37	3.35	3.55	3.46	3.53	3.40	3.40	3.40	3.40	3.40	81.23	
29	3/10	3/13	3.21	3.33	3.20	3.14	(3.40)	3.48	3.40	3.40	3.50	3.55	3.20	3.50	3.36	3.40	3.40	3.48	3.33	3.33	3.49	3.49	3.49	3.49	3.49	
30	3.20	3.02	3.09	3.28	3/10	3.21	3.48 ^f	3.30 ^f	3.60 ^f	3.60 ^f	3.50	3.50	3.00 ^f	3.13 ^f	2.99 ^f	3.13 ^f	3.28	3.28	3.46	3.27	3.27	3.27	3.27	3.27	80.06	
31	9/26	9/231	9/233	9/293	9/110	8/889	9/127	9/531	9/849	9/850	9/819	9/699	9/596	9/271	9/187	9/934	10/244	10/196	10/645	9/978	9/807	9/408	9/113	230296		
Sum	Mean ¹	3.20	3.18	3.24	3.25	3.25	3.49	3.53	3.49	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34		
	Mean ²	3/18	3/18	3/26	3/25	3/25	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	3/49	
	Median	3/20	3/20	3/22	3/24	3/24	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	3/48	

¹For all days of the month
²For quiet days

September, 1944
F2-M3500

TABLE 51
IONOSPHERE DATA-11

(Location) Washington, D.C. Ionosphere Station

National Bureau Of Standards

(Institution)

RESTRICTED

Hourly Values of F1-M1500 for September 1944
(Month)

Record measured by: S.M.O.

H.P.G.

TIME: 75° W MERIDIAN

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sum	Mean						
1									2.61	2.65	2.67	2.72	2.65	2.55	2.45	2.51	2.45	2.37	2.4						28.12	2.81						
2									2.46 ^K	2.50 ^K	2.51 ^K	2.75 ^K	2.79 ^K	2.82 ^K	2.72 ^K	2.46 ^K	2.45	2.47	2.50	2.47	2.50	2.45						33.70	3.35			
3									2.52	2.60	2.50	2.75	2.56	2.5	2.45	2.52	2.46	2.46	2.46	2.46	2.46	2.46	2.46						25.50	2.55		
4									2.62	A	2.68	2.65	2.72	2.72	2.70	2.54	2.5	2.42	2.42	2.42	2.42	2.42	2.42						23.50	2.35		
5									2.61	1.53	2.65	2.71 ^H	2.75	2.79	2.72	2.54	2.5	2.42	2.42	2.42	2.42	2.42	2.42						20.22	2.02		
6									2.61 ^J	2.64	2.73	2.75	2.76	2.79	2.72	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52						20.22	2.02		
7									(2.80)	2.53	2.76	2.77	2.71	2.70	2.62	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52						28.17	2.81		
8									(2.70)	2.47 ^K	2.49	2.51	2.60	2.61	2.61	2.58	2.42	2.24	2.24	2.24	2.24	2.24	2.24						25.50	2.55		
9									(2.60)	2.40	2.40	2.51	2.60	2.63	2.63	2.55	2.55	2.45	2.45	2.45	2.45	2.45	2.45						23.50	2.35		
10									2.42	2.55	2.50	2.67	2.63	2.86	2.86	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76						27.34	2.73		
11									2.52	(2.60)	2.65	2.51	2.64 ^H	2.62	2.62	2.55	2.55	2.45	2.45	2.45	2.45	2.45	2.45						28.17	2.81		
12									2.98	2.50 ^I	2.60	2.51	2.60	2.62	2.62	2.57 ^H	2.57 ^H	2.37	2.37	2.37	2.37	2.37	2.37						28.30	2.80		
13									2.51		2.68	2.74	2.74	2.70 ^H	2.70 ^H	2.65	2.65	2.50	2.50	2.50	2.50	2.50	2.50						23.50	2.35		
14									C	C	2.68	2.80	2.70	2.75	2.65 ^T	2.65 ^T	2.58	2.58	2.58	2.58	2.58	2.58	2.58						25.74	2.57		
15									2.50	2.61	2.66	2.65 ^T	2.65 ^T	2.64 ^T	2.64 ^T	2.61	2.61	2.57	2.57	2.57	2.57	2.57	2.57						27.07	2.70		
16									2.80	2.66	2.82 ^I	2.80	2.80 ^H	2.80	2.80	2.80 ^H	2.80 ^H	2.70	2.70	2.70	2.70	2.70	2.70						24.15	2.41		
17									2.62	(2.50)	2.70 ^I	2.54 ^H	2.44	2.64	2.64	2.59	2.59	2.46	2.46	2.46	2.46	2.46	2.46						23.73	2.37		
18									2.85	(2.80)	2.80 ^H	2.80 ^H	3.65	2.80	2.80	2.52 ^H	2.52 ^H	2.55	2.55	2.55	2.55	2.55	2.55						26.78	2.68		
19									(2.51)	2.63	2.63	2.72 ^H	2.63	2.63	2.63	2.64 ^H						26.26	2.62									
20									2.79	2.67	2.72	2.72	2.65	2.65	2.65	2.68	2.68	2.59	2.59	2.59	2.59	2.59	2.59	2.59						23.80	2.38	
21									C	C	2.66	2.61	2.61	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62						15.35	1.53	
22									2.80	2.48	2.51	2.77	2.72	2.89	2.89	2.54	2.54	2.50	2.50	2.50	2.50	2.50	2.50	2.50						23.50	2.35	
23									2.64	2.64	2.46	C	2.51	2.51	2.51	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50						17.54	1.75
24									2.77	2.61	2.50	2.60	2.68	2.64 ^H	2.64 ^H	2.55	2.55	2.42	2.42	2.42	2.42	2.42	2.42	2.42						21.27	2.12	
25									2.57	2.57	2.50	2.72	2.80	2.80	2.80	2.50	2.50	2.47	2.47	2.47	2.47	2.47	2.47	2.47						22.47	2.24	
26									2.57	2.57	2.57	2.80	2.60	2.67	2.67	2.40 ^H	2.40 ^H	2.65	2.65	2.65	2.65	2.65	2.65	2.65						23.31	2.33	
27									2.60	2.43	2.48	2.61	2.59	2.50	2.50	2.45	2.45	2.33	2.33	2.33	2.33	2.33	2.33	2.33						19.75	1.97	
28									2.51	(2.60)	2.50	2.74	2.57 ^H	2.43	2.43	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37						22.23	2.22		
29									2.50	A	2.72	2.79	2.78	2.78	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77						23.82	2.38		
30									K	(2.47)	2.69 ^K	2.74 ^K	2.73 ^K	2.68 ^K	2.38 ^K	2.37 ^K	2.42 ^K						22.85	2.28								
31									28.95	59.51	72.75	79.17	78.98	78.54	72.97	67.71	67.71	68.76	68.76	69.22	69.22	69.22	69.22						723.75	72.38		
									2.63	2.59	2.60	2.64	2.72	2.71	2.61	2.51	2.47	2.47	2.47	2.47	2.47	2.47	2.47						22.85	2.28		
									2.65	2.60	2.60	2.63	2.72	2.70	2.62	2.52	2.47	2.47	2.47	2.47	2.47	2.47	2.47						22.85	2.28		
									2.61	2.55	2.60	2.64	2.72	2.72	2.70	2.60	2.50	2.46	2.46	2.46	2.46	2.46	2.46						22.85	2.28		

1For quiet days

2For all days of the month

F1-MI500

September, 1944

TABLE 52
IONOSPHERE DATA-12

Washington, D.C.

National Bureau Of Standards

(Institution)

Tenostation
Ionosphere Station

National Bureau Of Standards

(Institution)

TIME: 75° W MERIDIAN

Hourly values of E-M1500 for September, 1944.
(cont'd.)

S. N. O.
H. P. G.

RESTRICTED

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
1																										19.58
2																										11.21
3																										15.39
4																										7.73
5																										7.75
6																										25.71
7																										30.21
8																										18.45
9																										22.31
10																										19.06
11																										23.71
12																										34.50
13																										19.38
14																										23.40
15																										19.38
16																										31.10
17																										23.37
18																										11.50
19																										22.21
20																										11.82
21																										15.82
22																										19.21
23																										18.25
24																										15.28
25																										15.32
26																										19.22
27																										11.34
28																										19.08
29																										7.95
30																										19.27
31																										566.97
Sum	719	53.21	16.537	46.73	31.08	23.81	39.45	35.02	30.48	49.936	9.570	7.203	17.54													
Mean ¹	3.60	3.80	3.84	3.89	3.88	3.97	3.94	3.89	3.81	3.81	3.80	3.82	3.79	3.51												
Mean ²	3.60	3.81	3.84	3.88	3.83	3.91	3.94	3.89	3.81	3.80	3.83	3.82	3.79	3.51												
Median	3.61	3.82	3.85	3.89	3.90	3.98	3.97	3.98	3.91	3.91	3.80	3.84	3.71	3.51												

²For quiet days

For all days of the month

September, 1944

E-M1500

Table 53

Ionospheric Storminess, September, 1944

Day	Ionospheric Character*		Principal Storms		Magnetic Character**	
	00-12 GCT	12-24 GCT	Beginning GCT	End GCT	00-12 GCT	12-24 GCT
September						
1	2	2	2130	----	3	2
2	4	4	----	2200	4	3
3	3	2			2	1
4	3	2			1	2
5	2	1			2	1
6	1	1			1	2
7	2	2			2	1
8	2	2			2	2
9	1	1			2	1
10	2	3	2100	----	2	2
11	4	2	----	1000	2	2
12	2	2			3	2
13	2	1			1	2
14	1	1			2	2
15	1	2			2	0
16	1	2			1	1
17	1	1			1	2
18	1	2			2	2
19	2	1			1	1
20	2	0			1	3
21	***	2			3	2
22	2	3			2	2
23	1	1			2	2
24	3	3			4	3
25	1	1			2	2
26	2	2			2	2
27	3	2			2	2
28	2	1			2	1
29	2	2			2	1
30	2	4	1100	2100	2	4

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

***No record.

✓Dashes indicate continuance of ionospheric storminess.

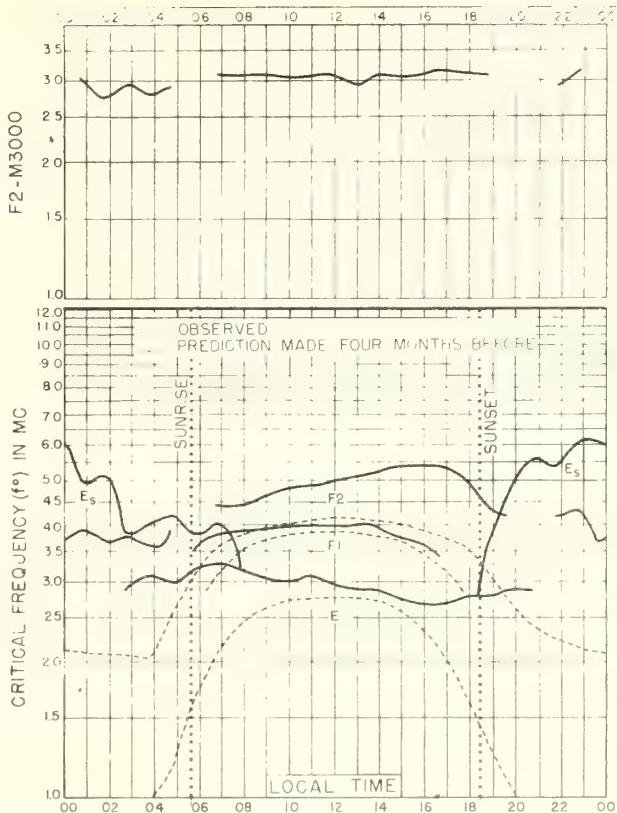


Fig. 1. CHURCHILL, CANADA
58.8° N, 94.2° W SEPTEMBER, 1944

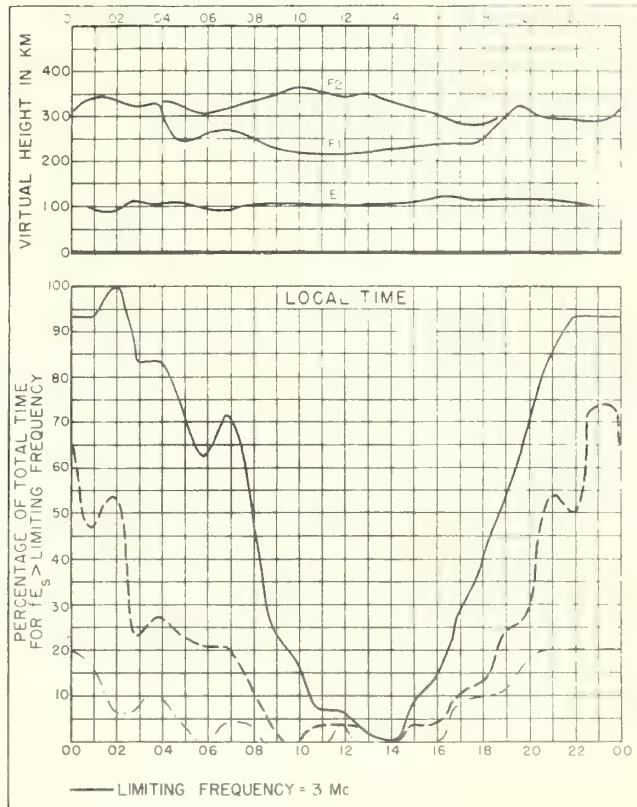


Fig. 2 CHURCHILL, CANADA SEPTEMBER, 1944

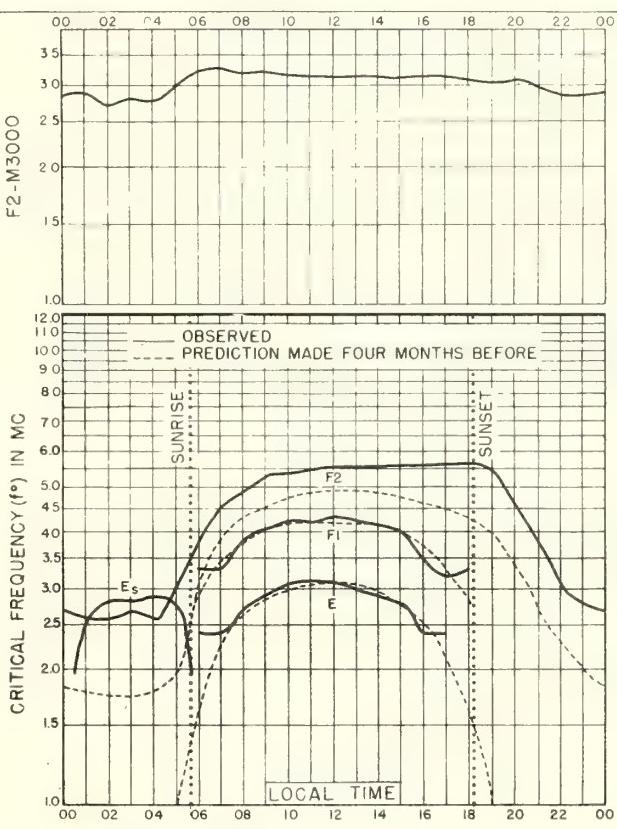


Fig. 3. OTTAWA, CANADA
45.5° N, 75.8° W SEPTEMBER, 1944

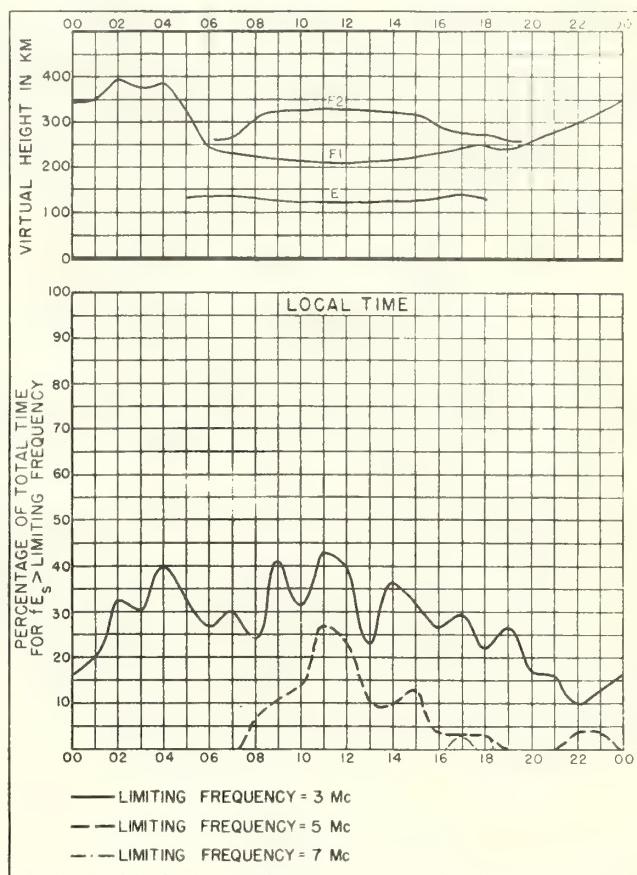


Fig. 4. OTTAWA, CANADA SEPTEMBER, 1944

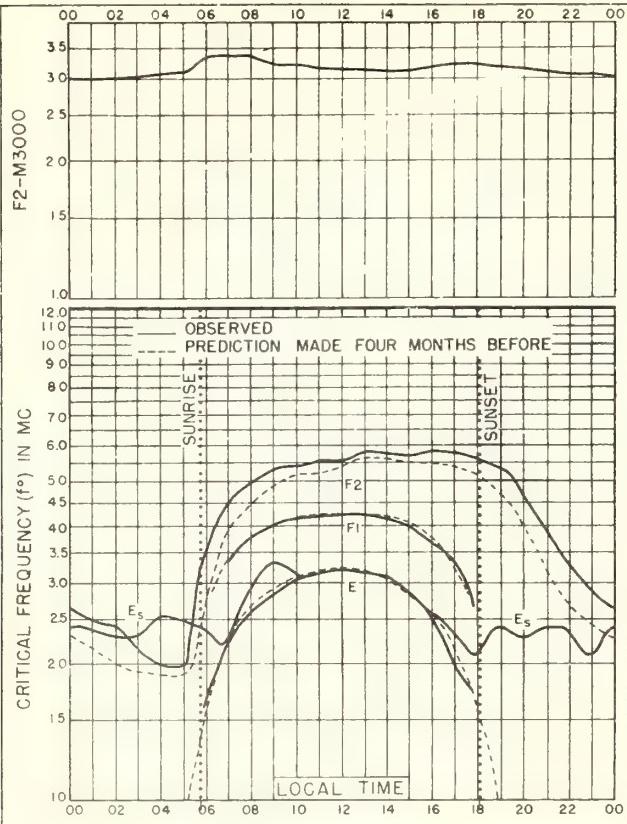


Fig. 5. WASHINGTON, D.C.
39.0°N, 77.5°W SEPTEMBER, 1944

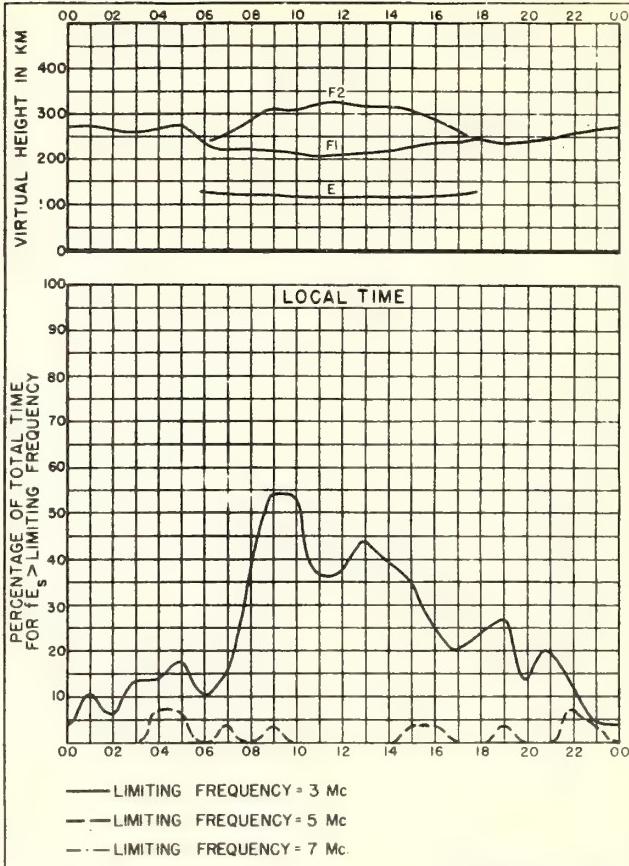


Fig. 6. WASHINGTON, D.C. SEPTEMBER, 1944

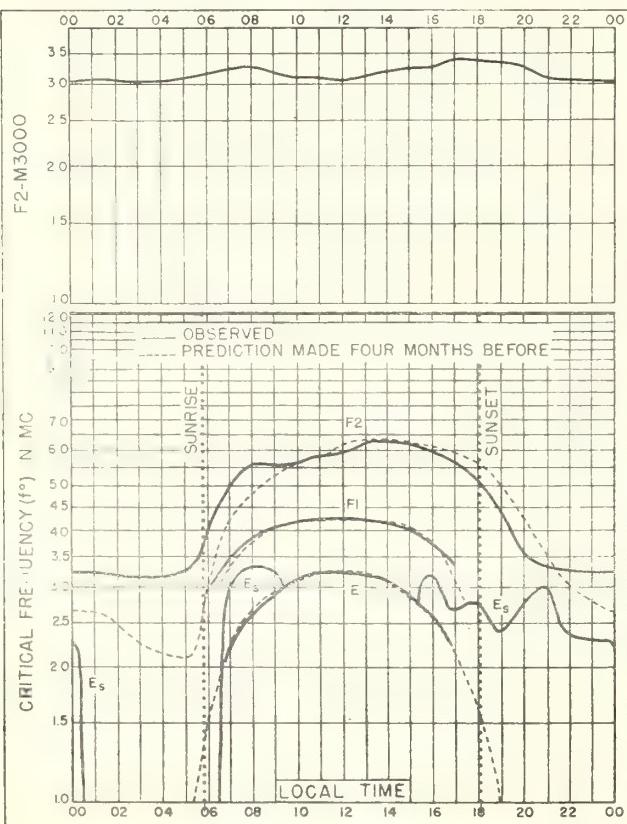


Fig. 7. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W SEPTEMBER, 1944

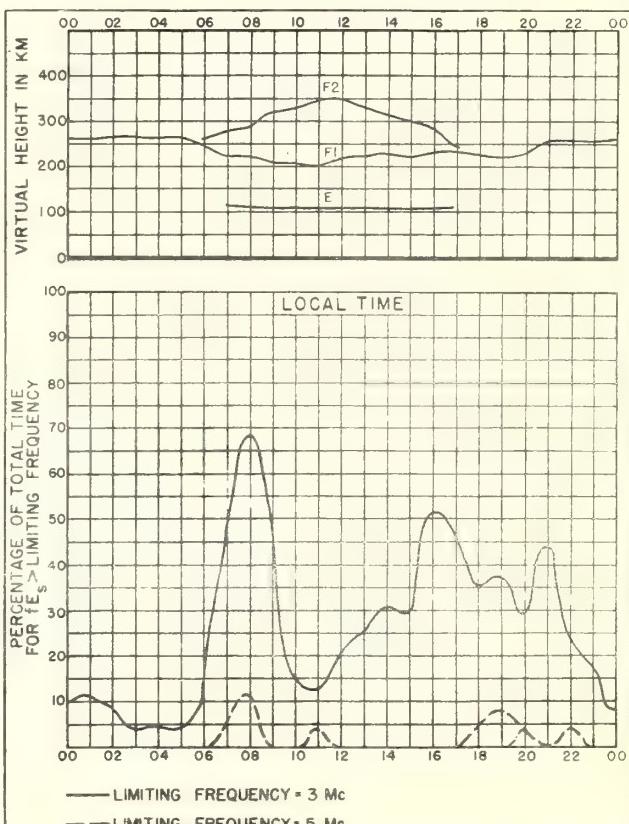


Fig. 8. SAN FRANCISCO, CALIFORNIA SEPTEMBER, 1944

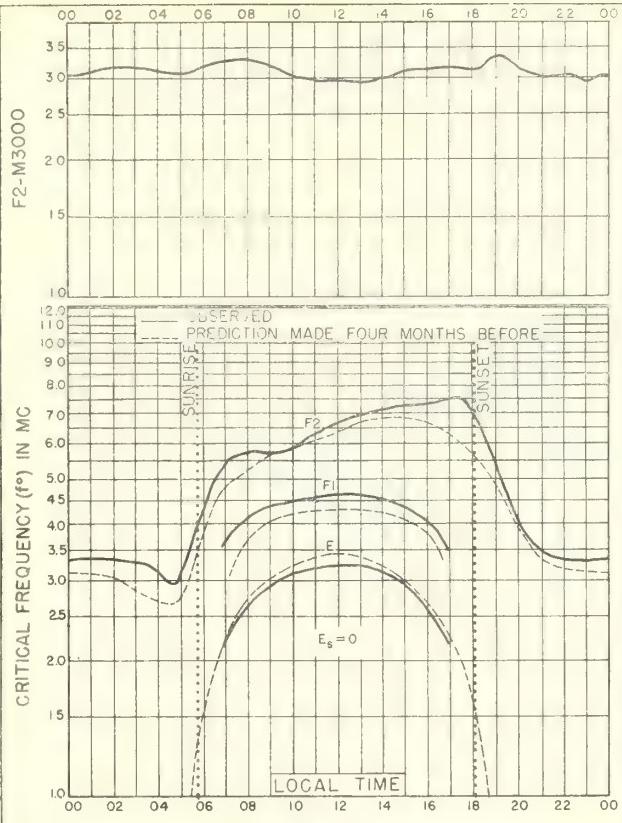


Fig. 9. BATON ROUGE, LOUISIANA
30°5'N, 91°2'W SEPTEMBER, 1944

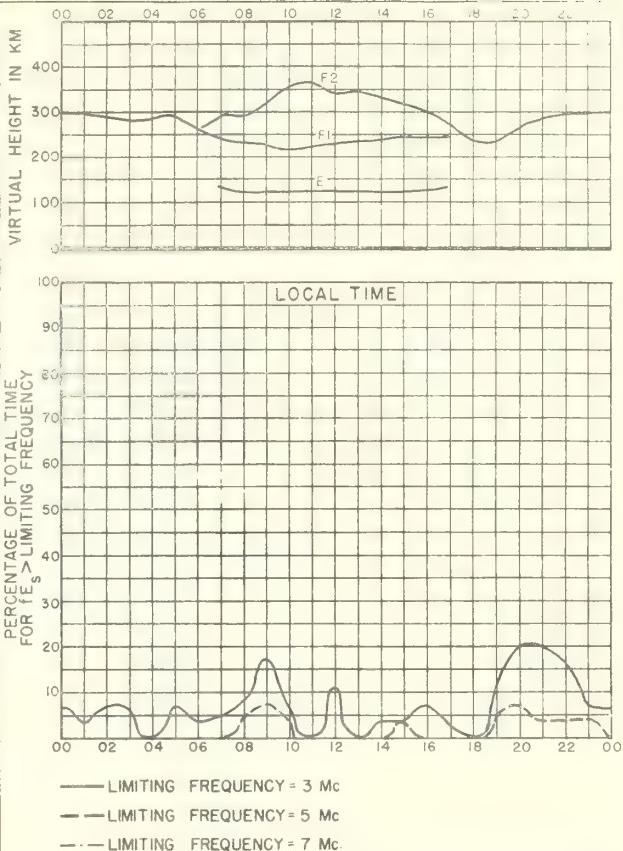


Fig. 10. BATON ROUGE, LOUISIANA SEPTEMBER, 1944

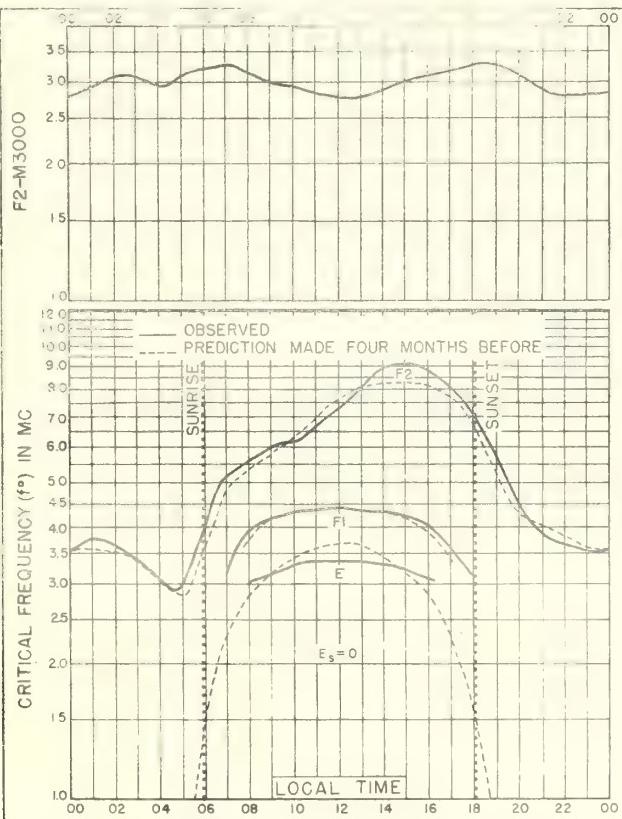


Fig. 11. SAN JUAN, PUERTO RICO
18°4'N, 66°1'W SEPTEMBER, 1944

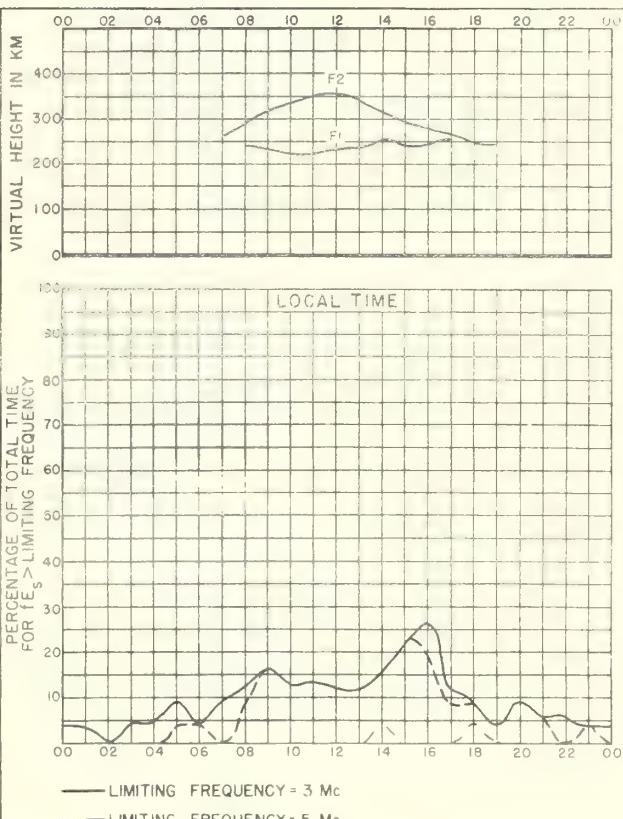


Fig. 12. SAN JUAN, PUERTO RICO SEPTEMBER, 1944

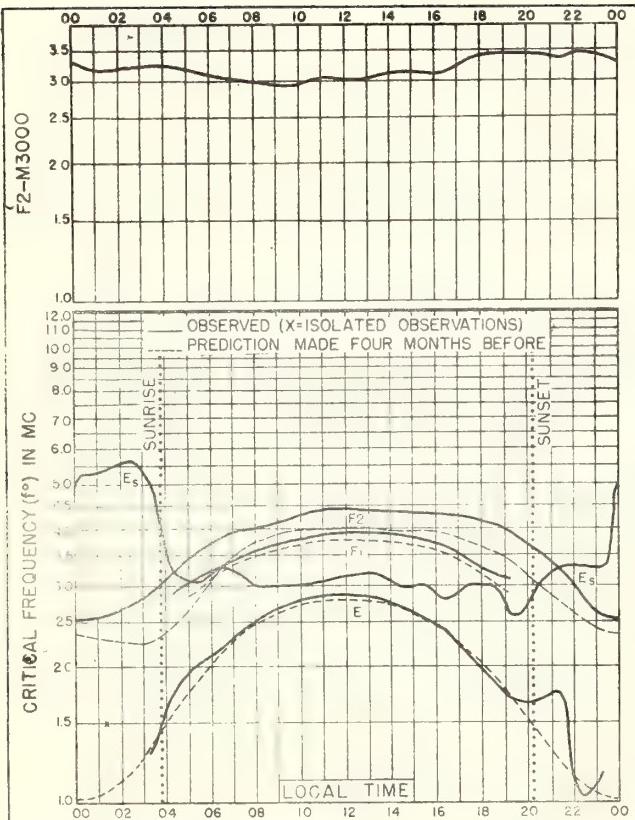


Fig. 13. FAIRBANKS, ALASKA
64.9°N, 147.8°W

AUGUST, 1944

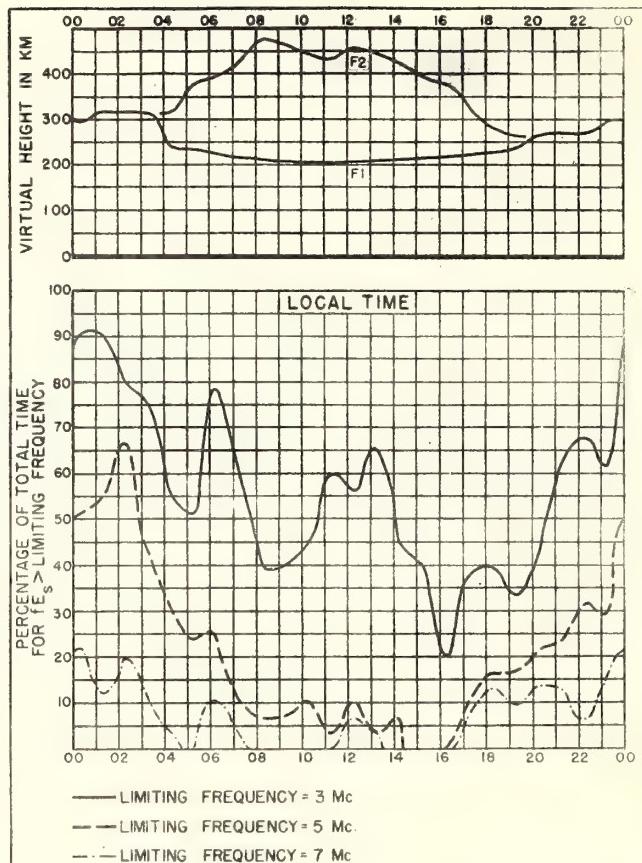


Fig. 14. FAIRBANKS, ALASKA

AUGUST, 1944

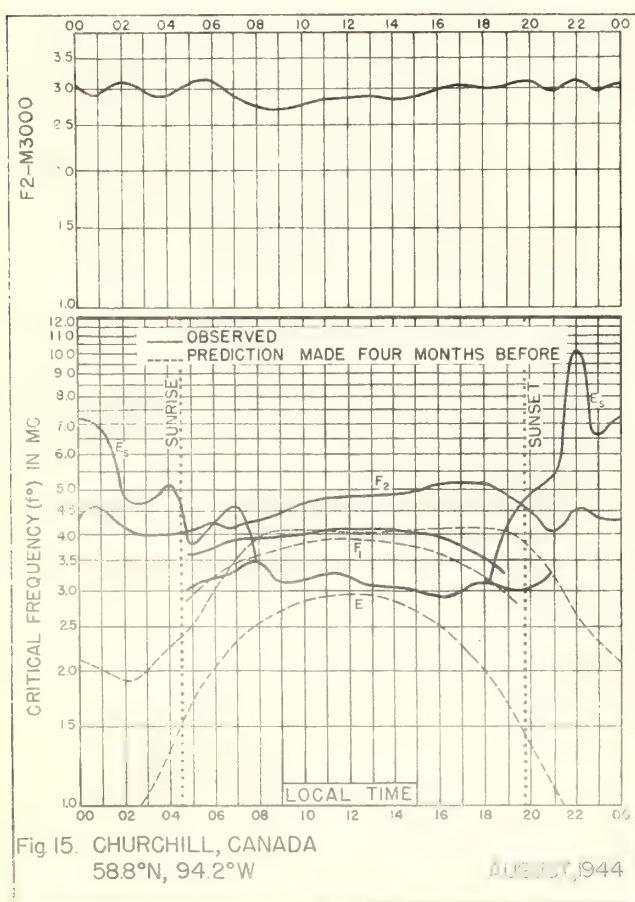


Fig. 15. CHURCHILL, CANADA
58.8°N, 94.2°W

AUGUST, 1944

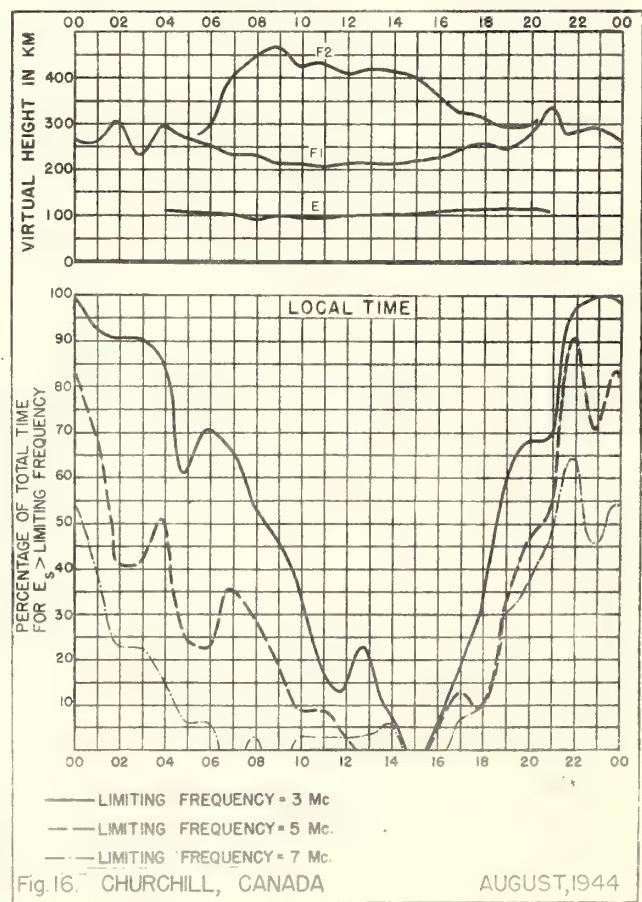
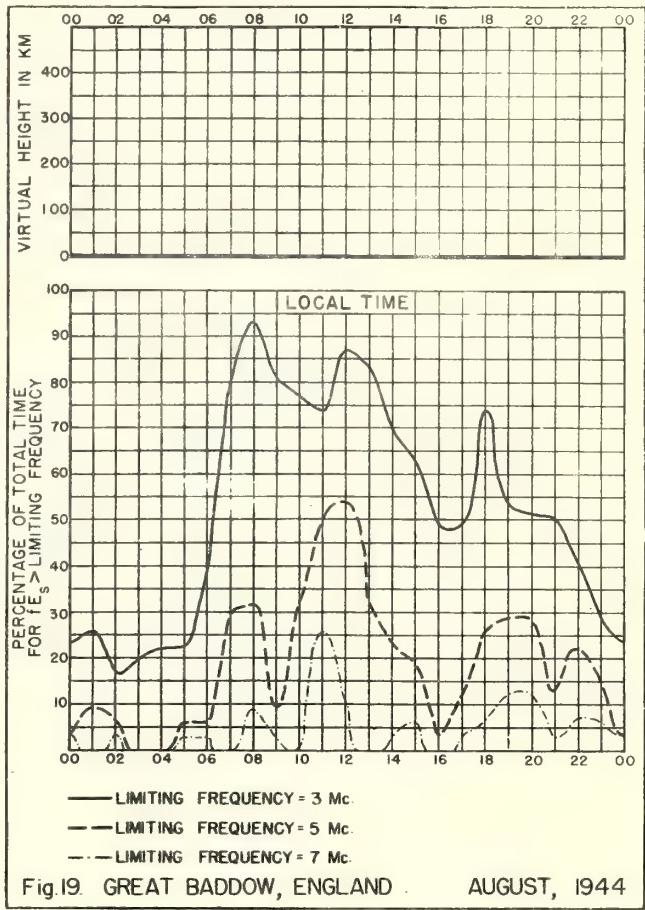
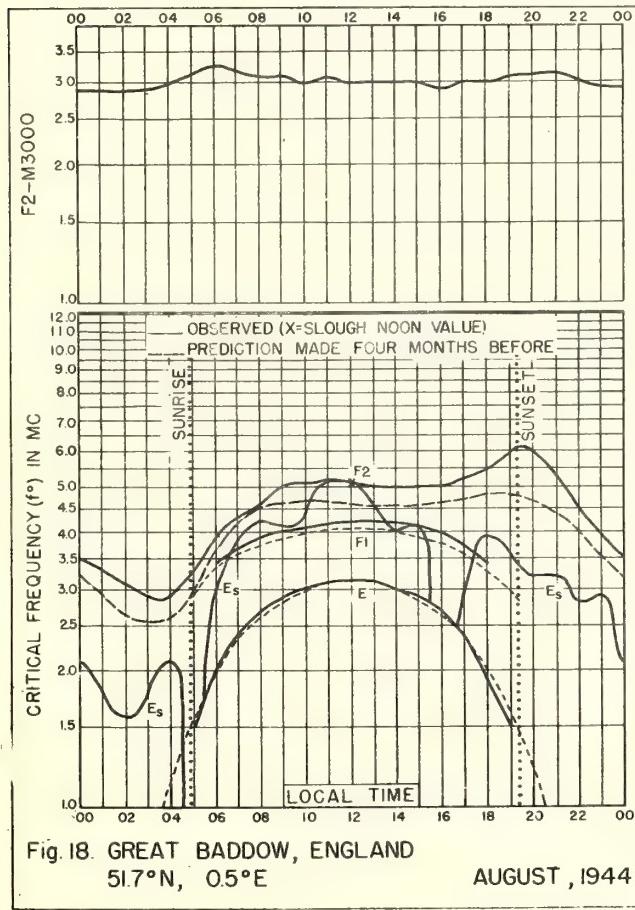
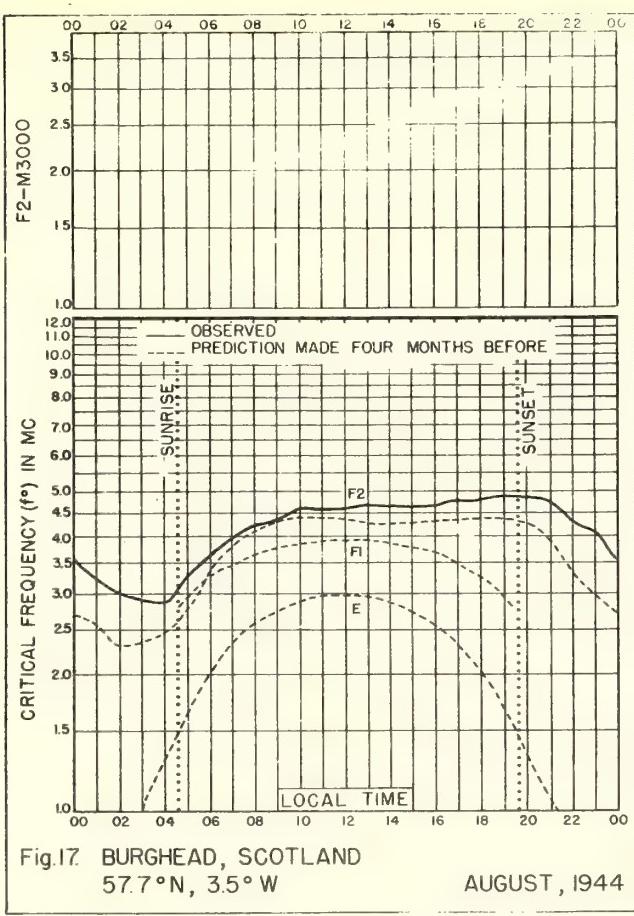


Fig. 16. CHURCHILL, CANADA

AUGUST, 1944



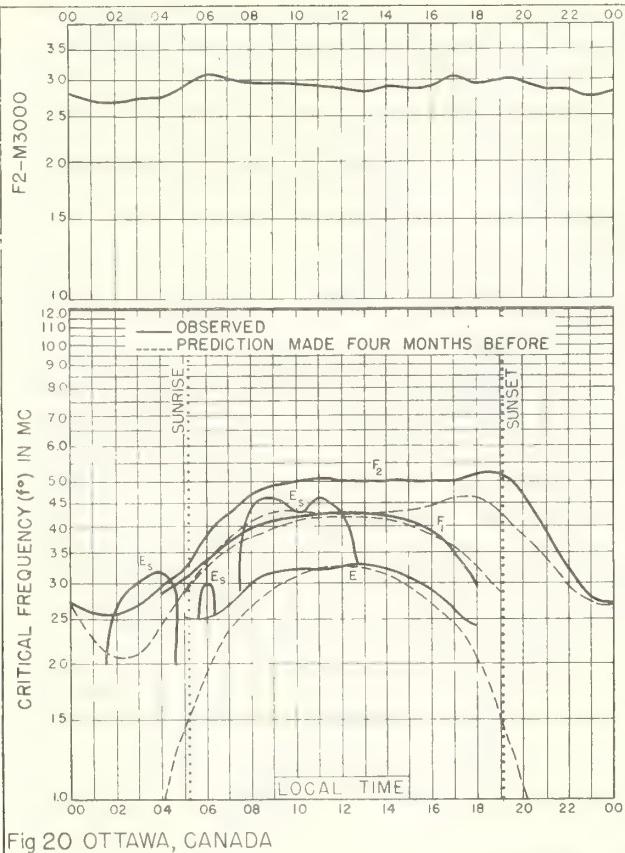


Fig 20 OTTAWA, CANADA
45.5°N, 75.8°W

AUGUST, 1944

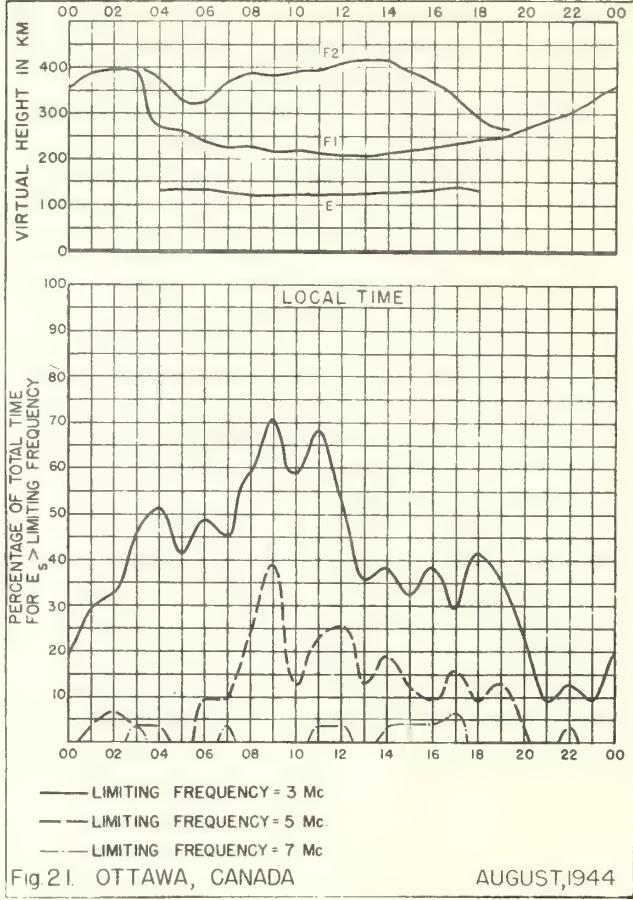


Fig 21. OTTAWA, CANADA

AUGUST, 1944

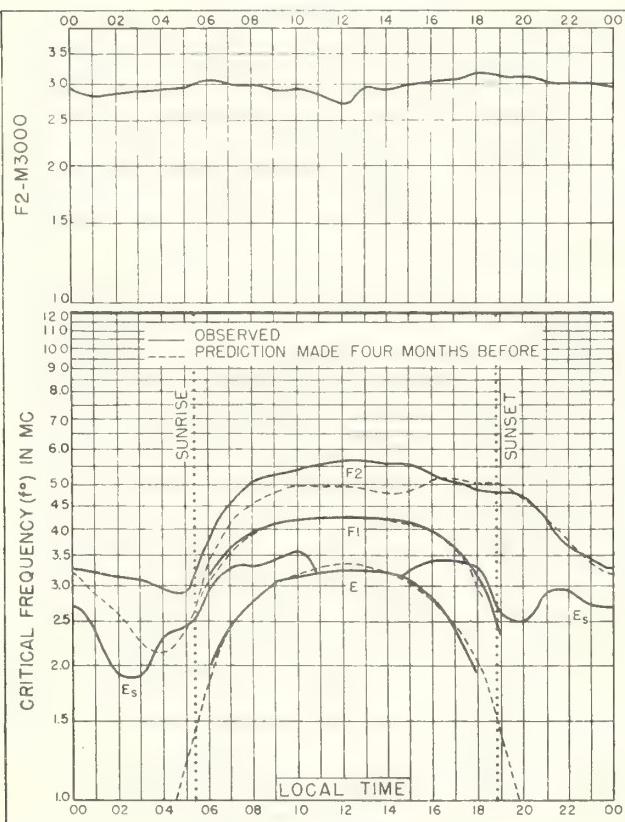


Fig 22. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W

AUGUST, 1944

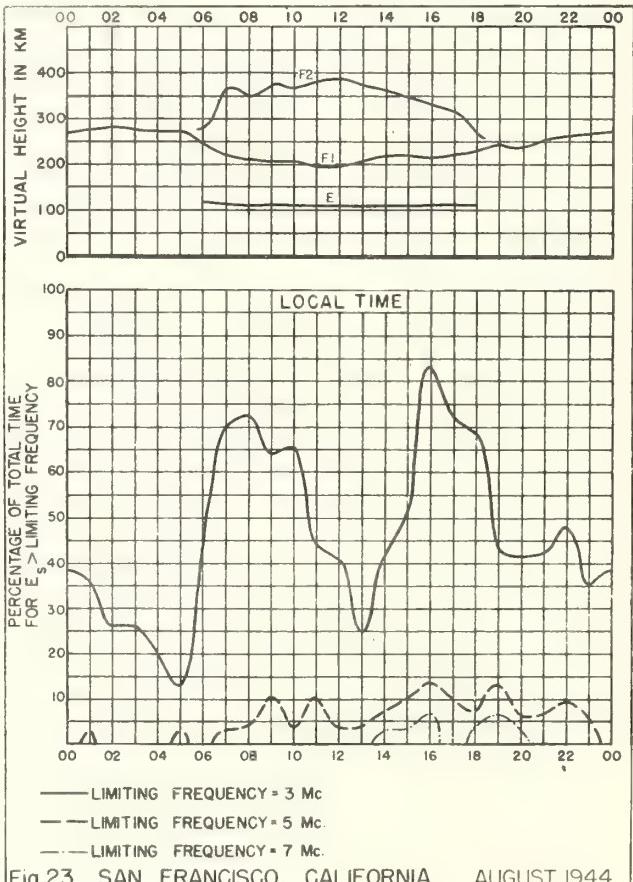
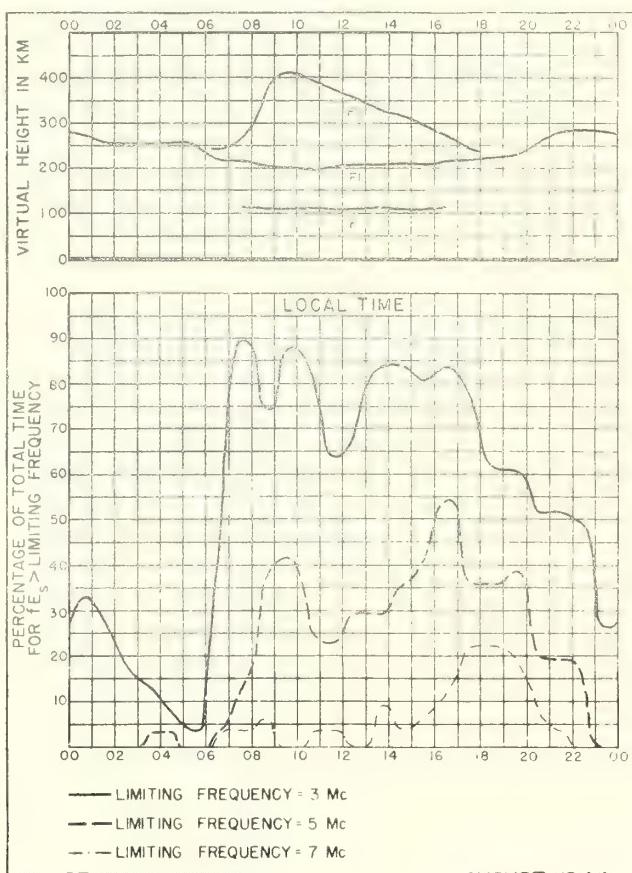
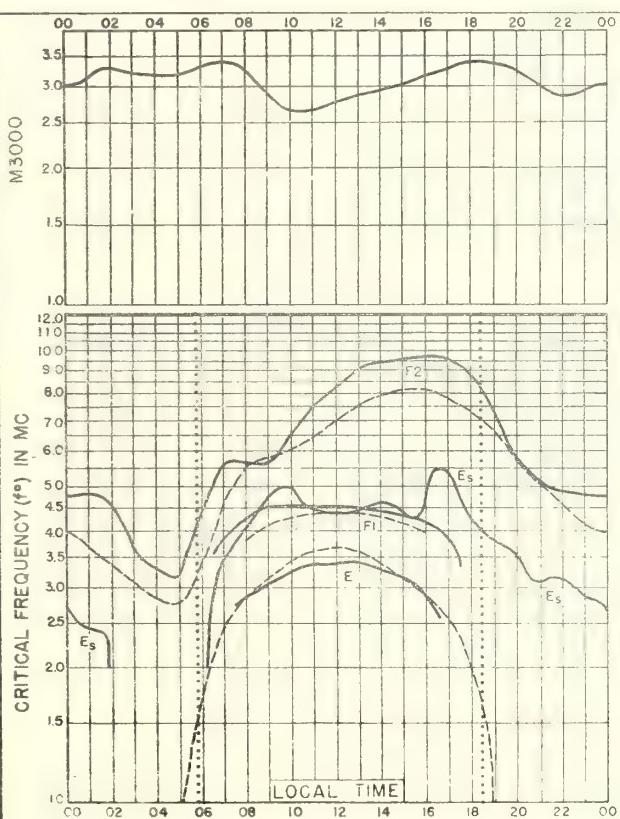
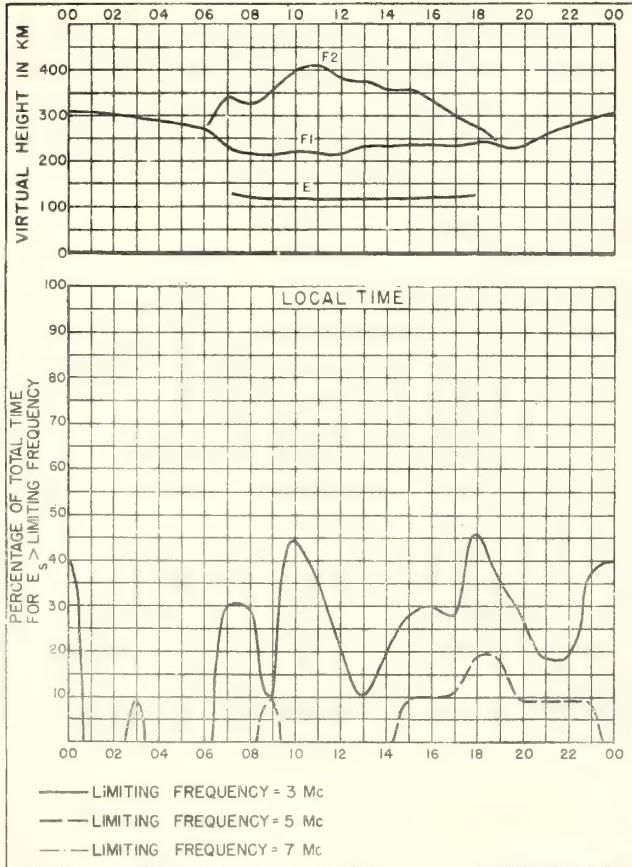
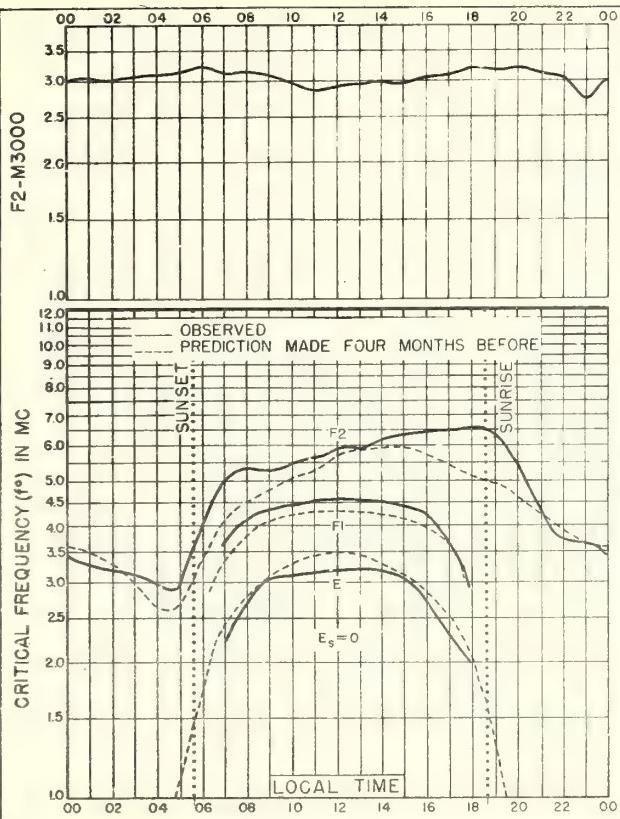


Fig 23. SAN FRANCISCO, CALIFORNIA AUGUST, 1944



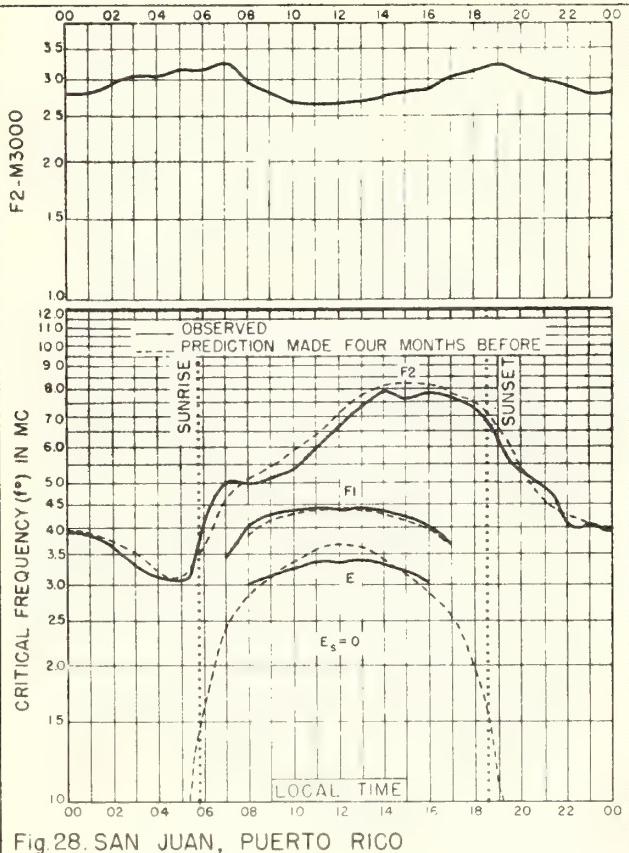


Fig. 28. SAN JUAN, PUERTO RICO
18.4°N, 66.1°W AUGUST, 1944

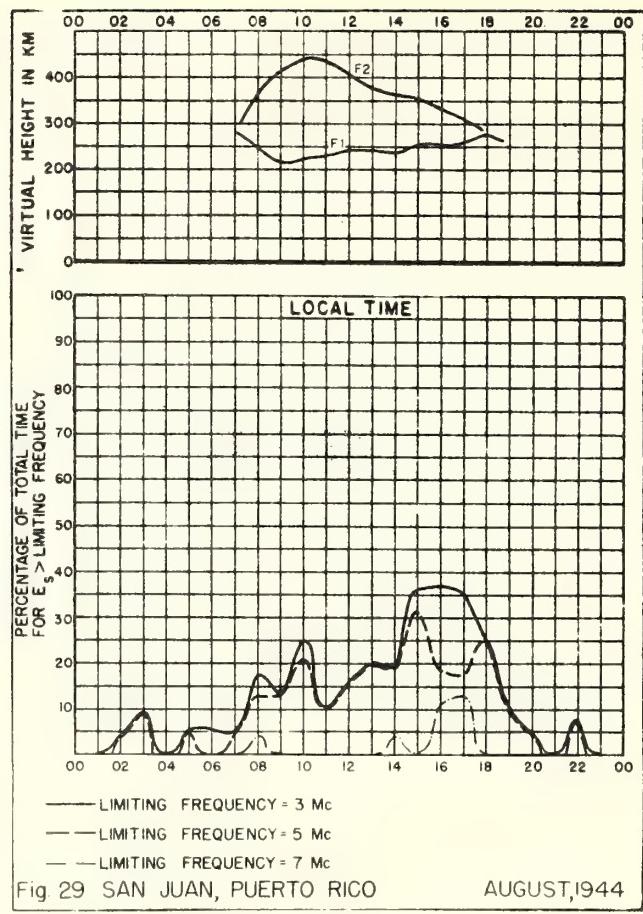


Fig. 29 SAN JUAN, PUERTO RICO AUGUST, 1944

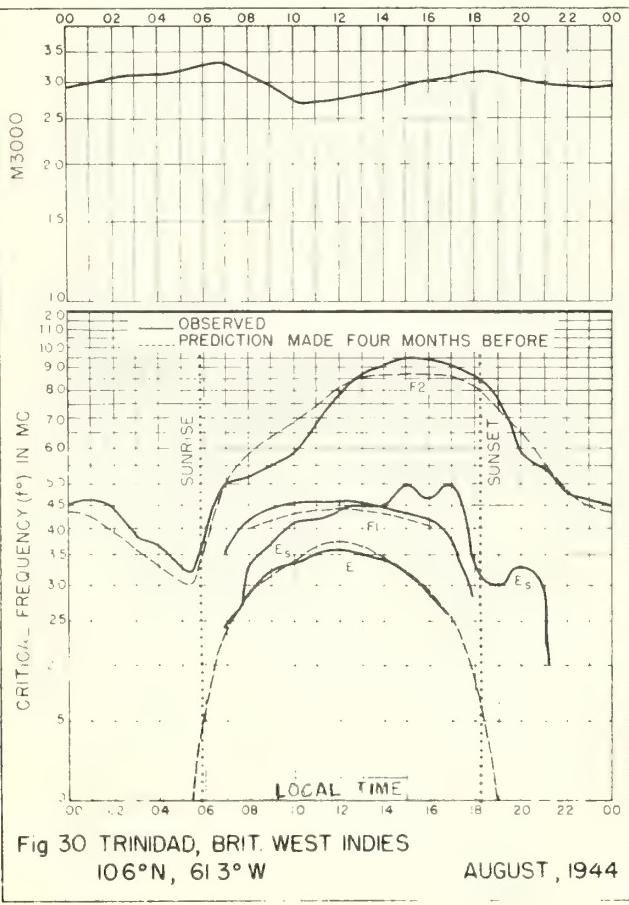


Fig. 30 TRINIDAD, BRIT. WEST INDIES
106°N, 61.3°W AUGUST, 1944

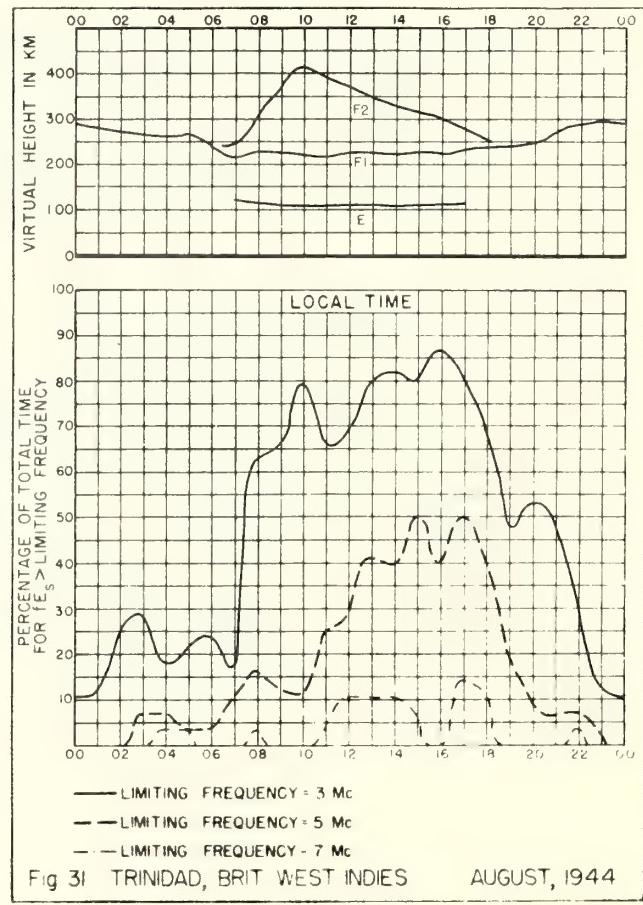


Fig. 31 TRINIDAD, BRIT. WEST INDIES AUGUST, 1944

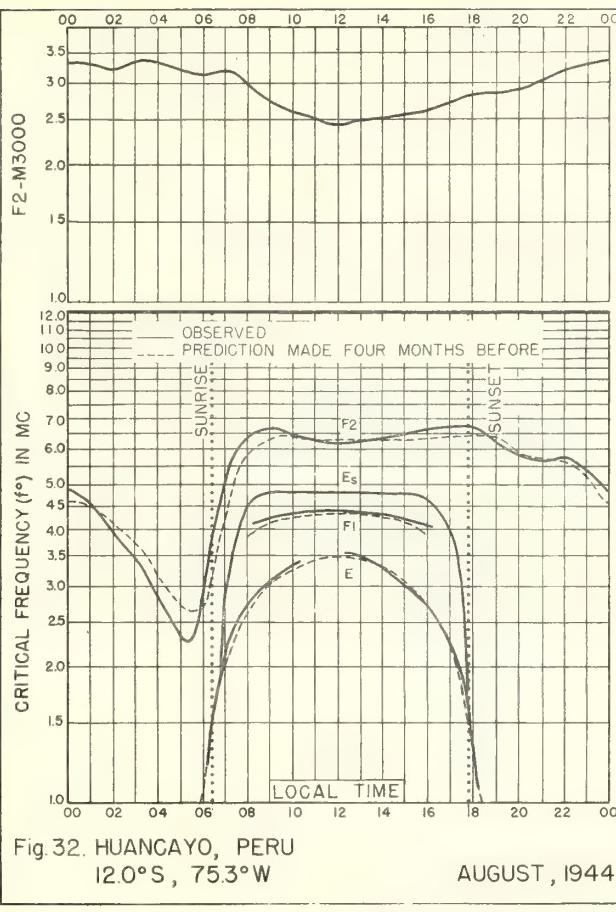
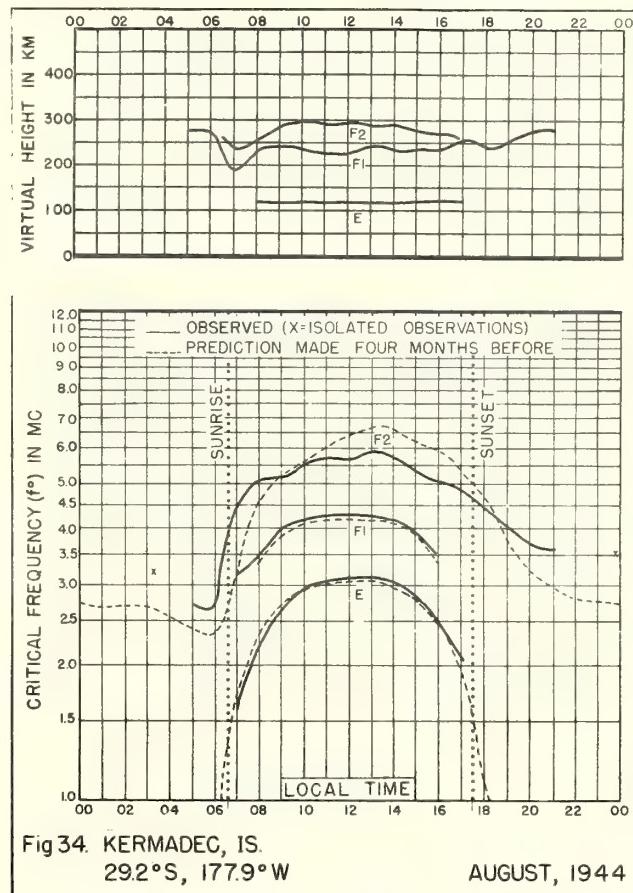
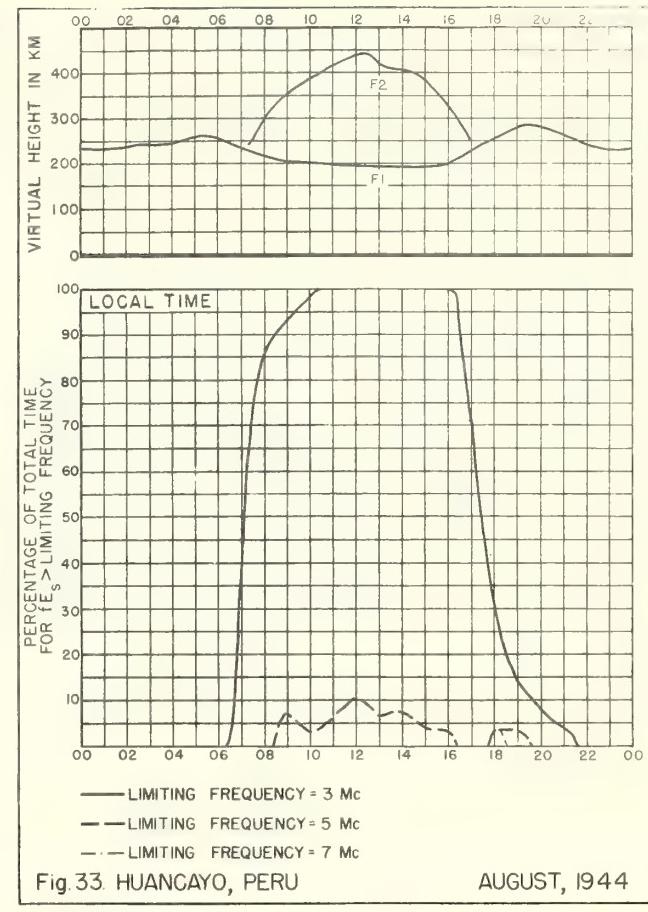
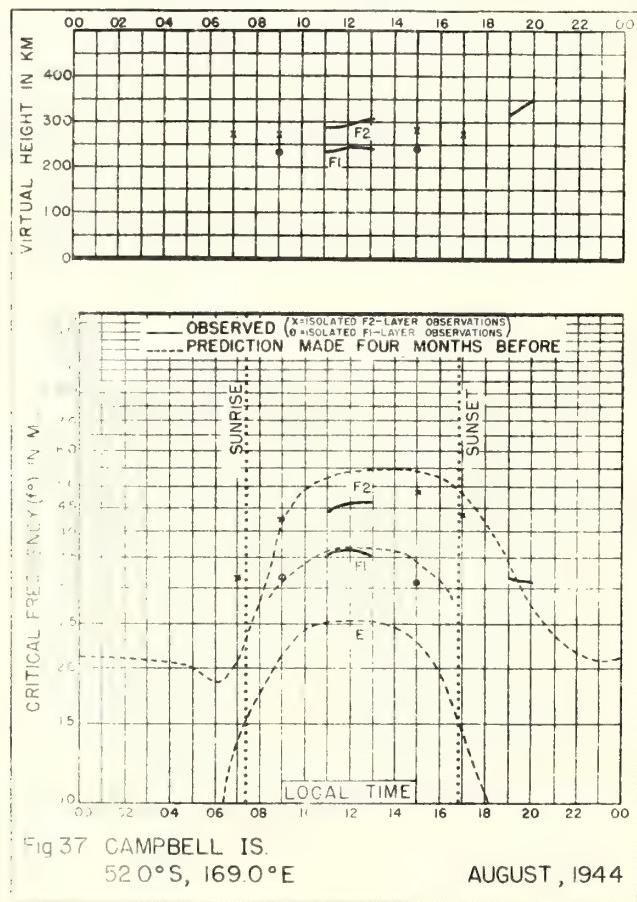
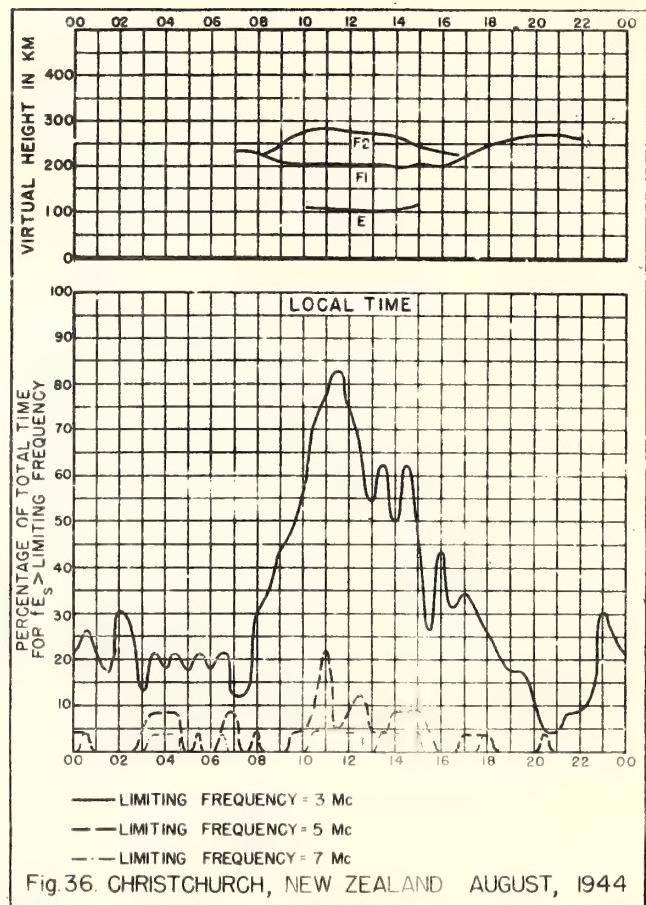
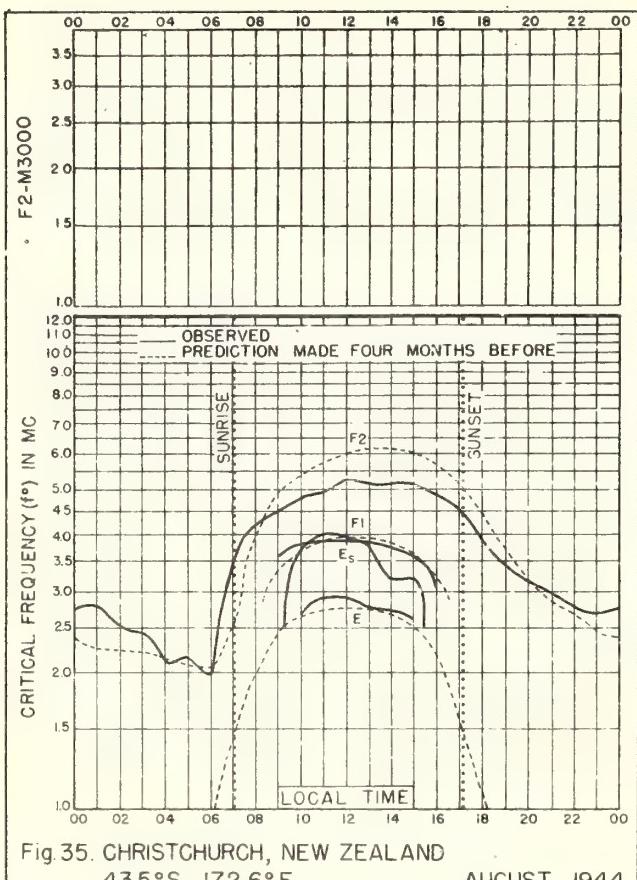
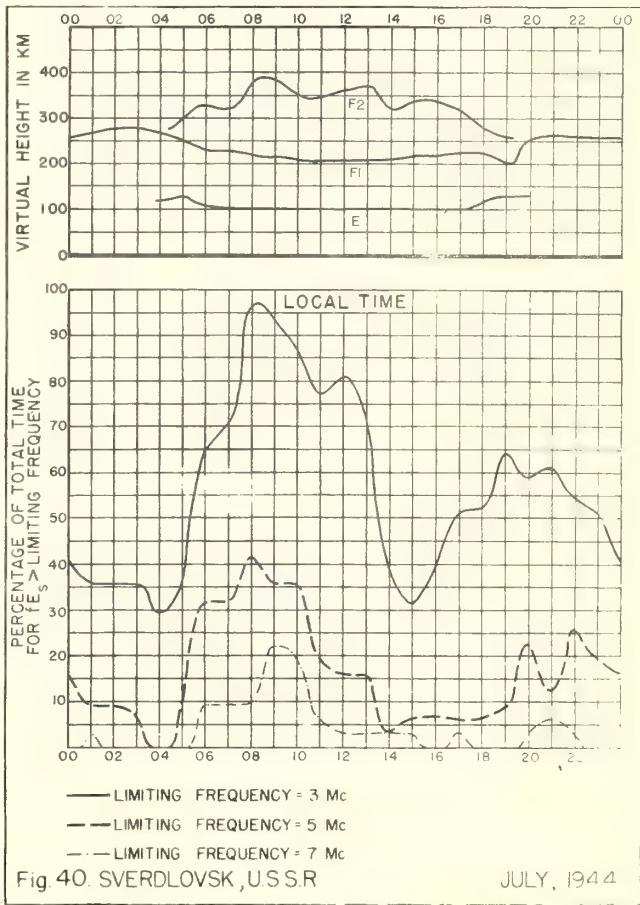
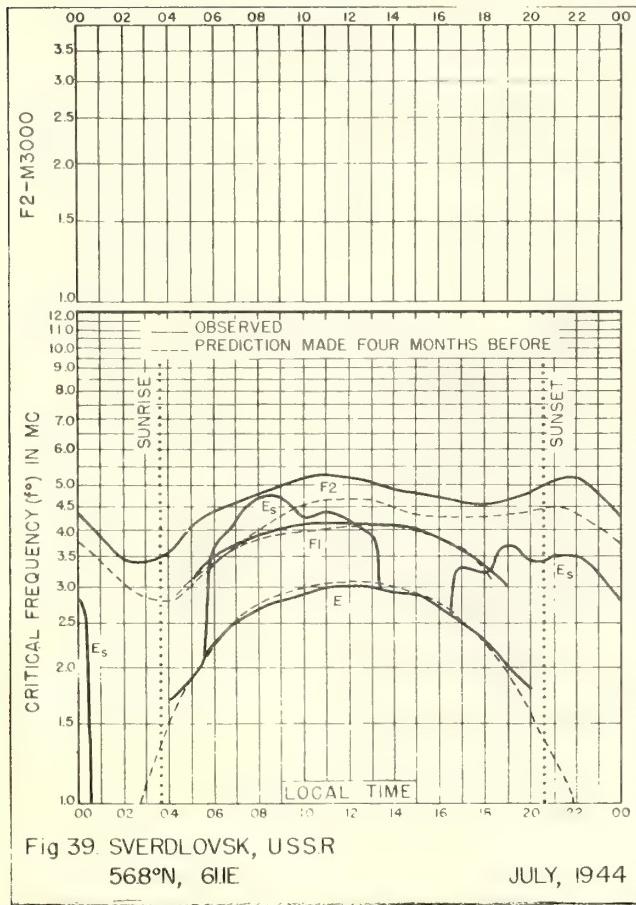
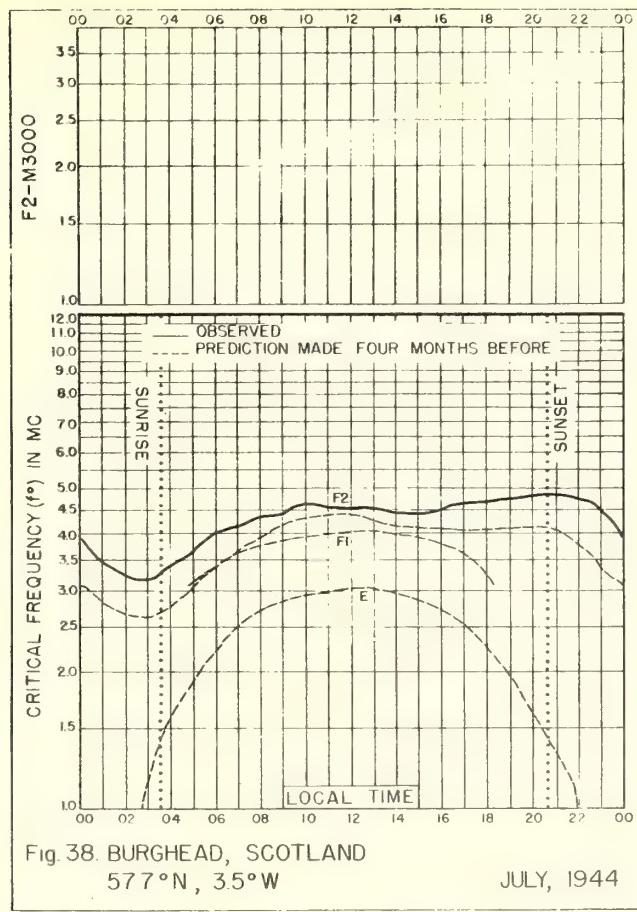


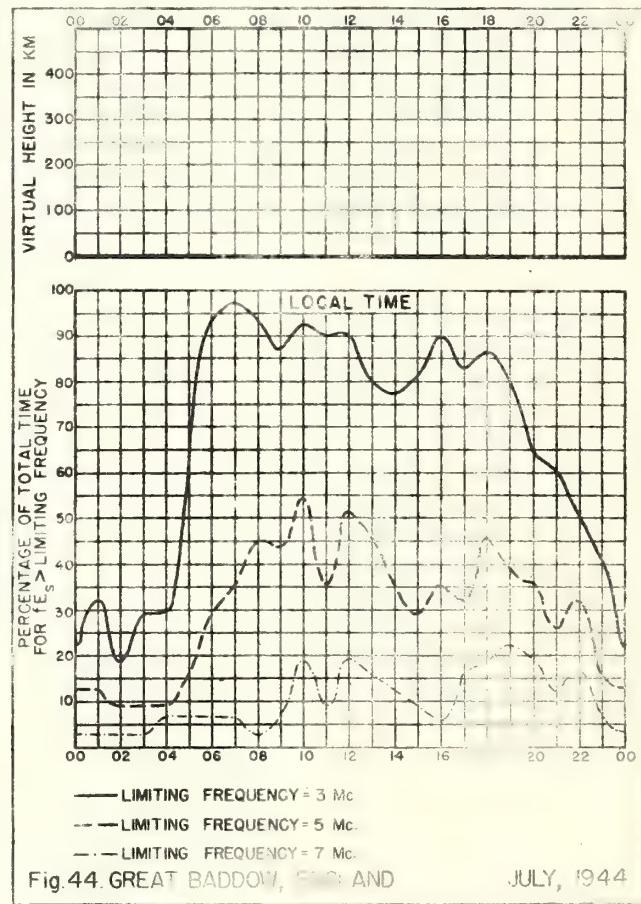
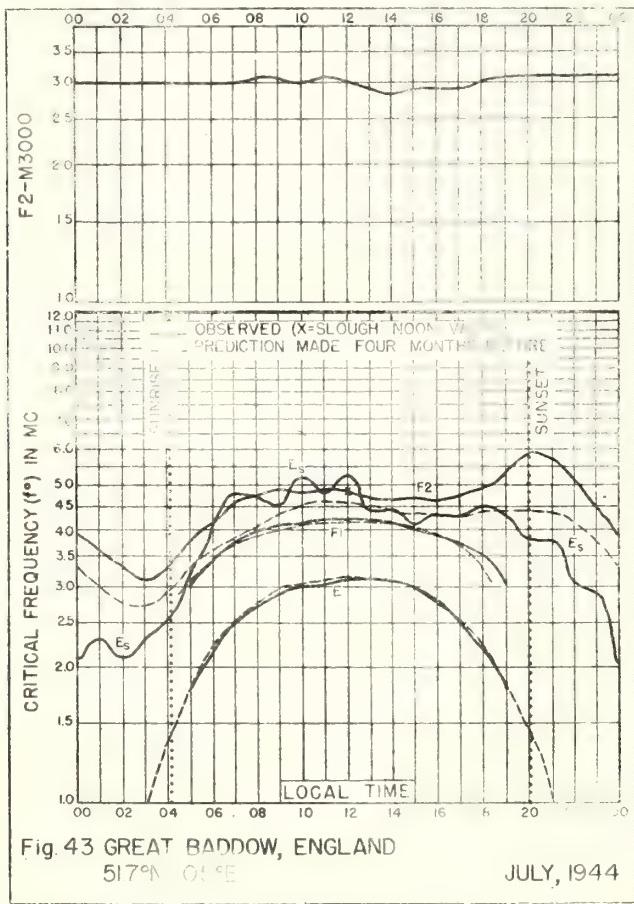
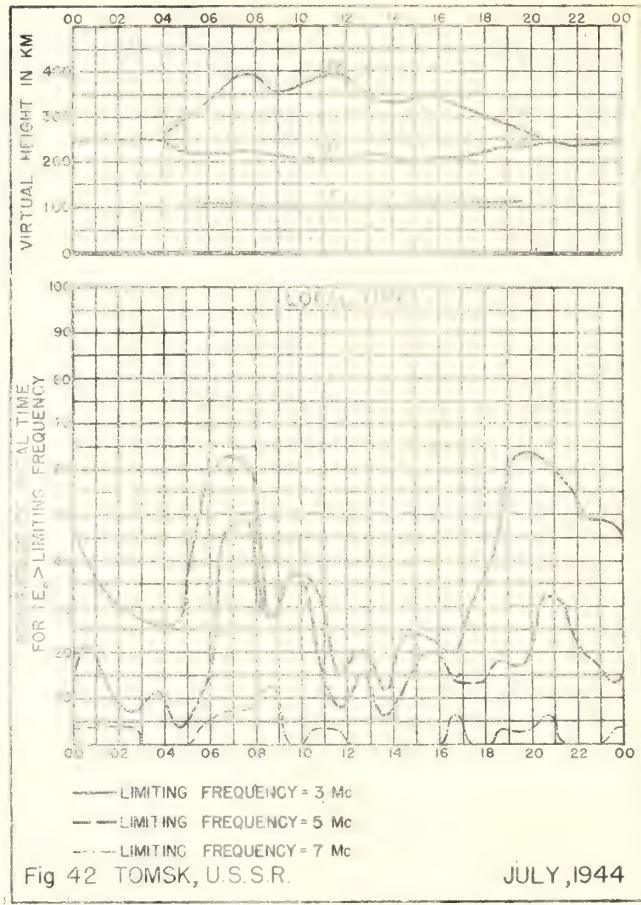
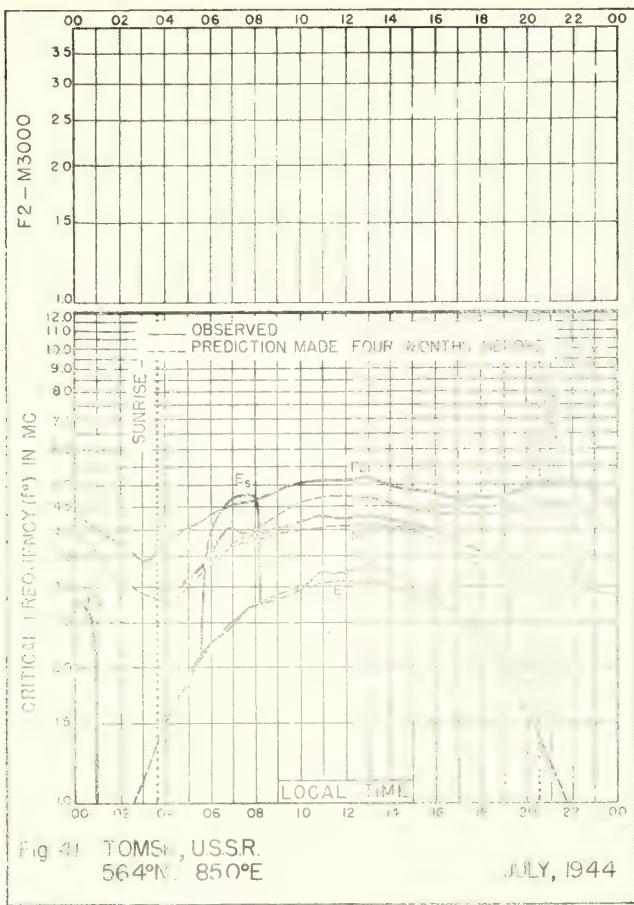
Fig. 32. HUANCAYO, PERU
12.0°S, 75.3°W

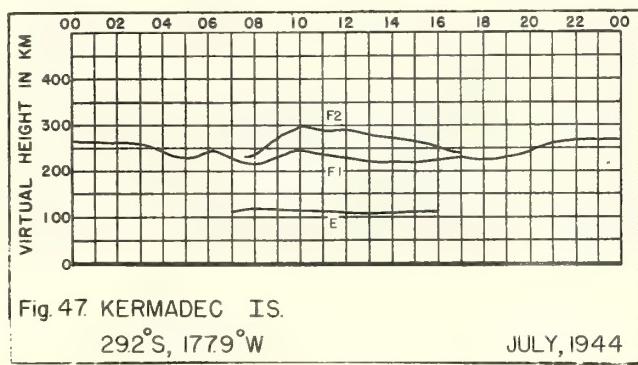
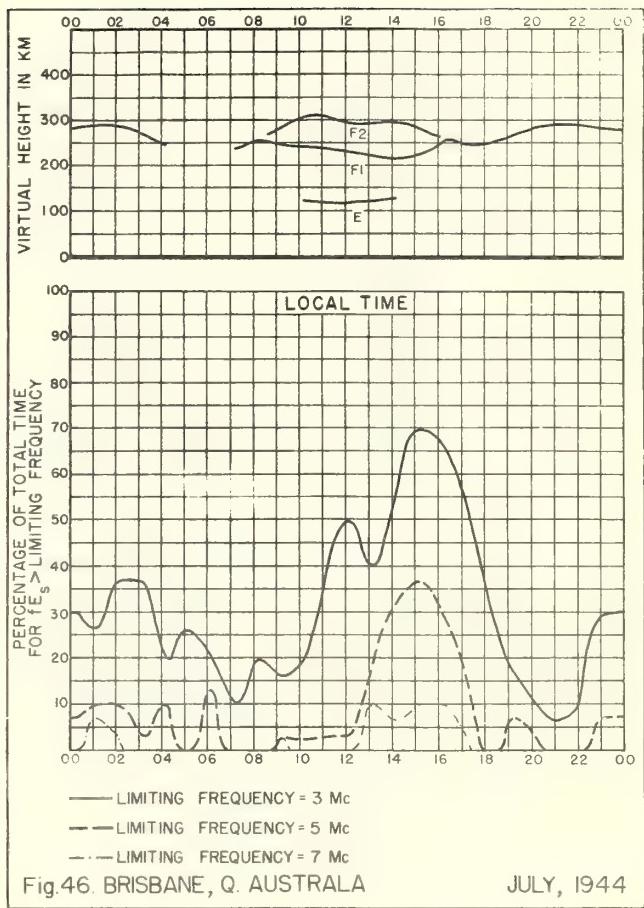
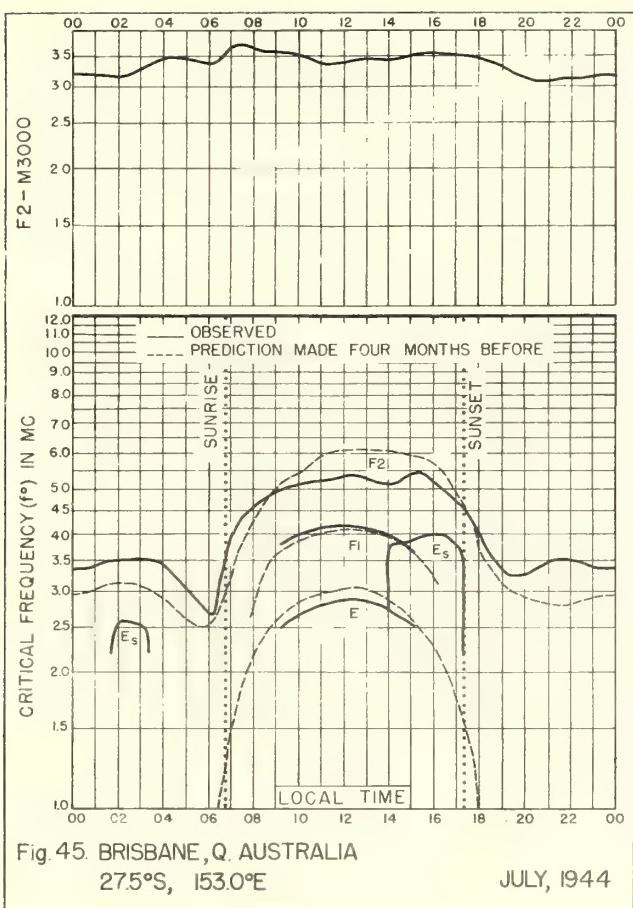
AUGUST, 1944











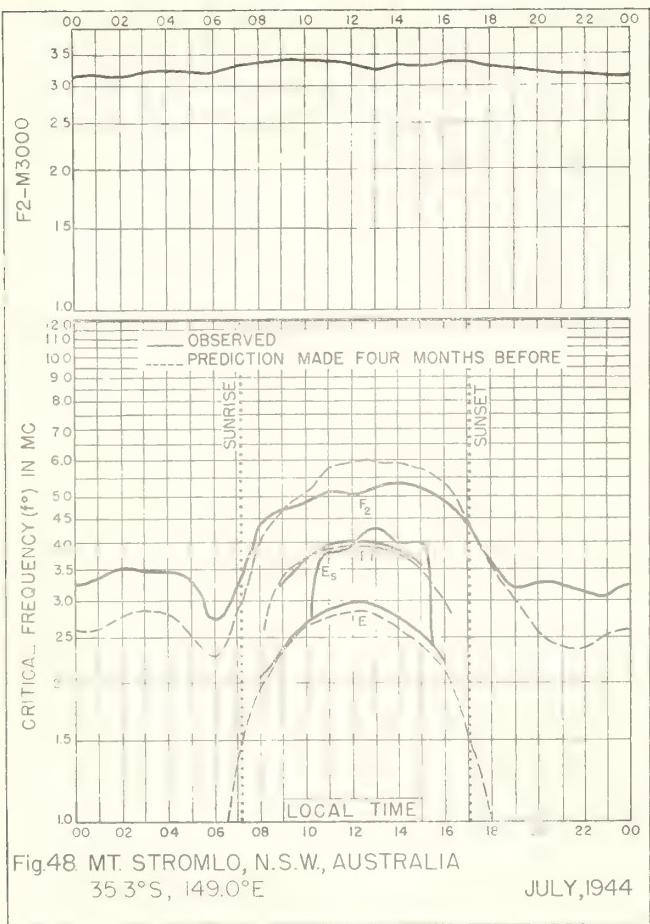


Fig 48. MT. STROMLO, N.S.W., AUSTRALIA
35°S, 149.0°E

JULY, 1944

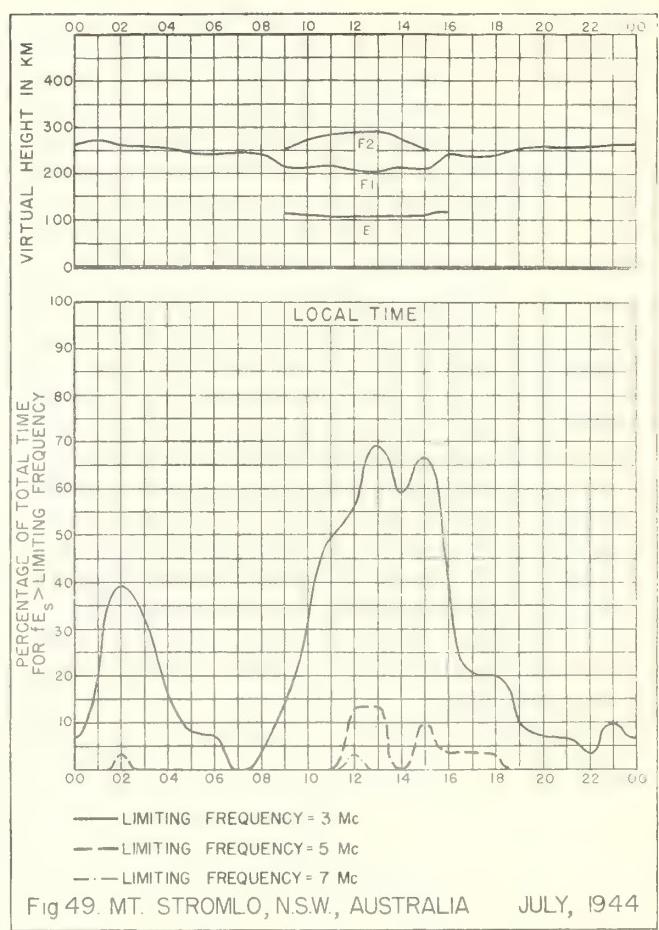


Fig 49. MT. STROMLO, N.S.W., AUSTRALIA JULY, 1944

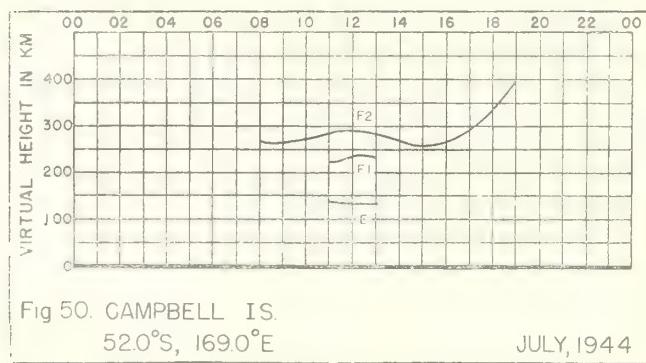


Fig 50. CAMPBELL IS.
52.0°S, 169.0°E

JULY, 1944

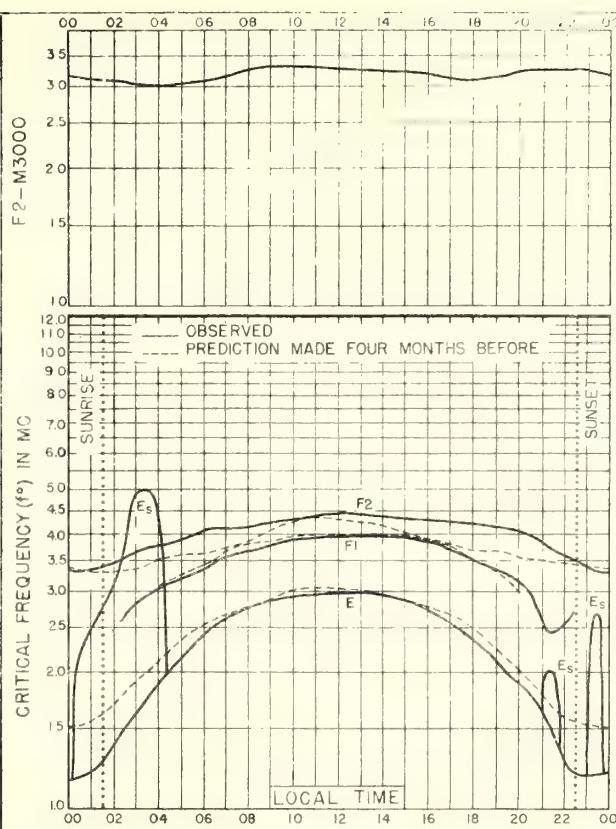


Fig.51. FAIRBANKS, ALASKA

64.9°N, 147.8°W

JUNE, 1944

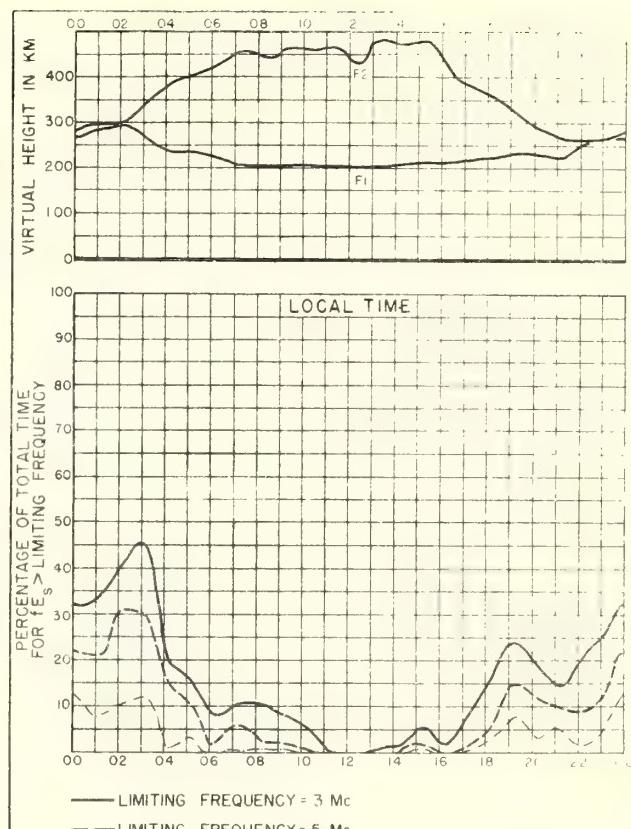


Fig.52. FAIRBANKS, ALASKA

JUNE, 1944

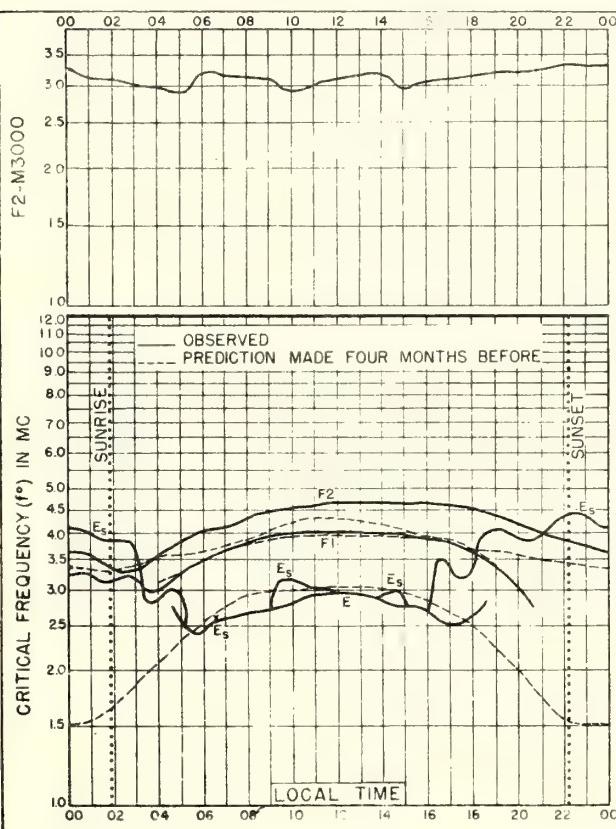


Fig.53. REYKJAVIK, ICELAND

64.1°N, 21.7°W

JUNE, 1944

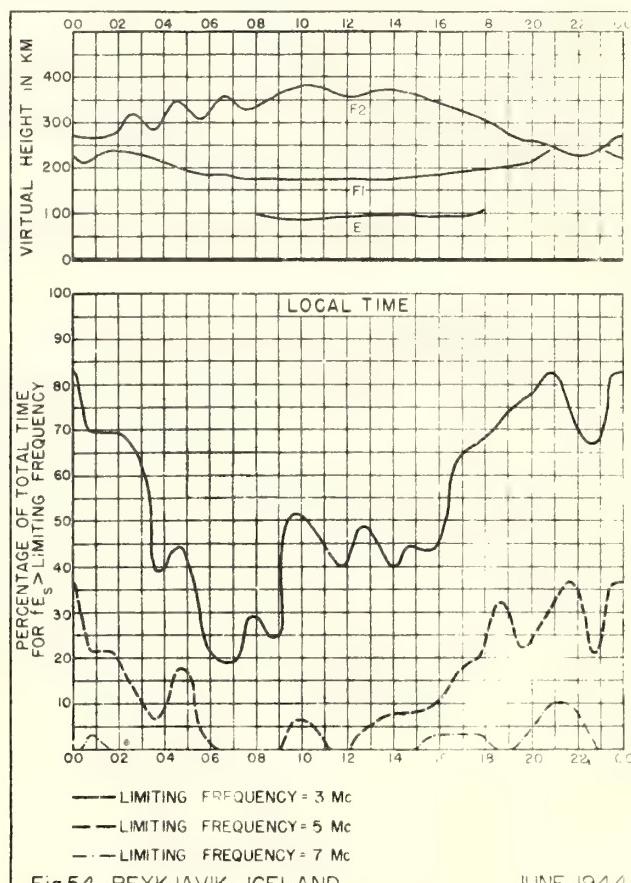
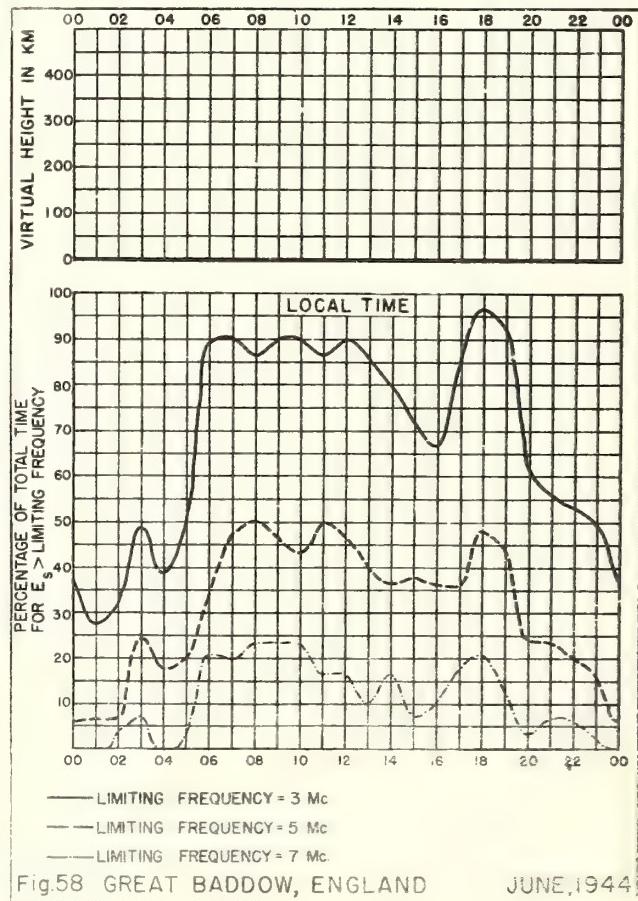
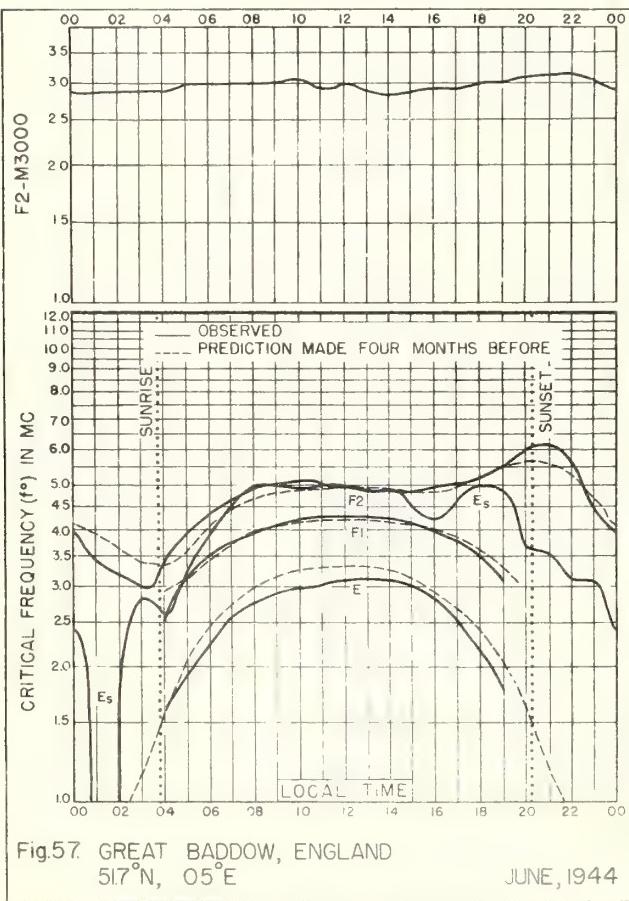
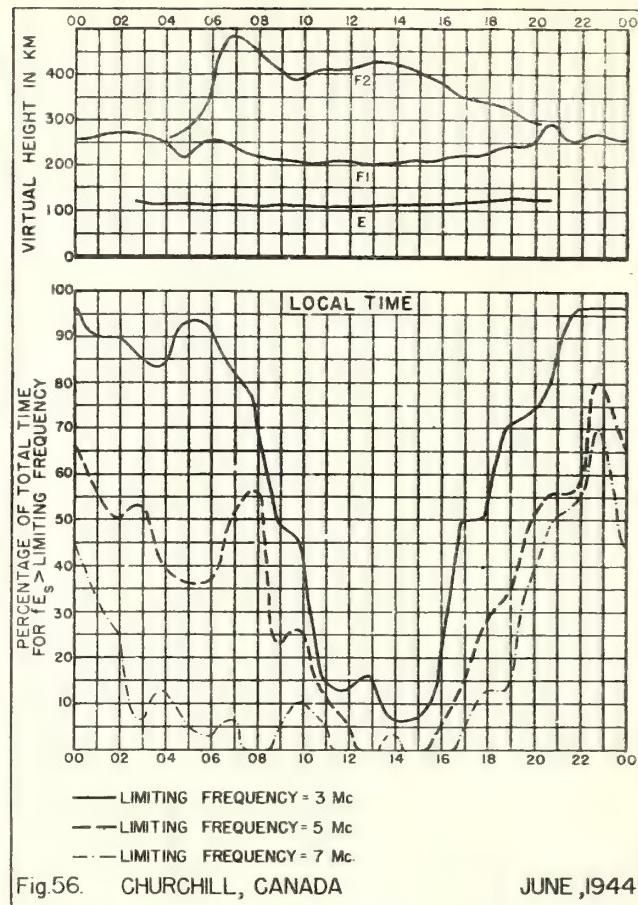
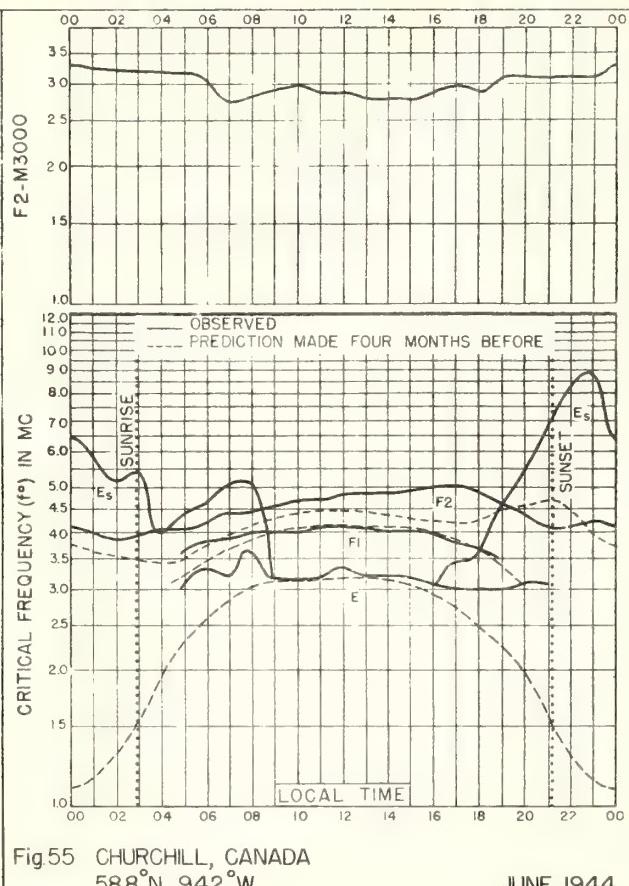


Fig.54 REYKJAVIK, ICELAND

JUNE, 1944



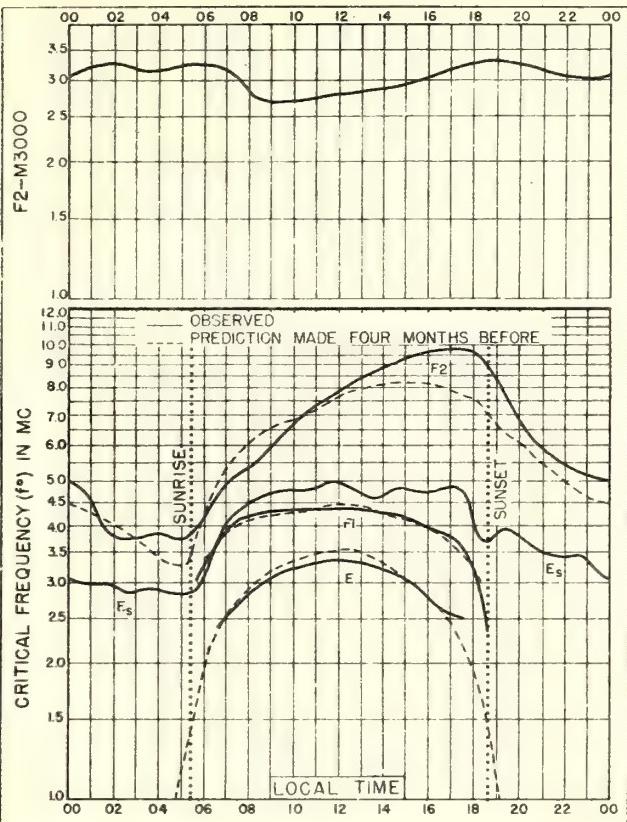


Fig.59. MAUI, HAWAII
20°N, 156.5°W JUNE, 1944

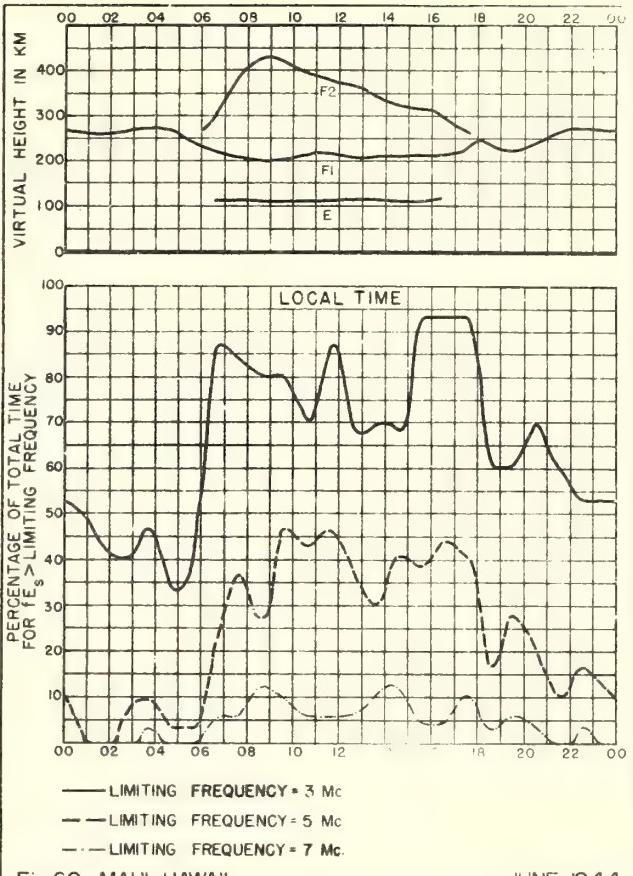


Fig.60. MAUI, HAWAII JUNE, 1944

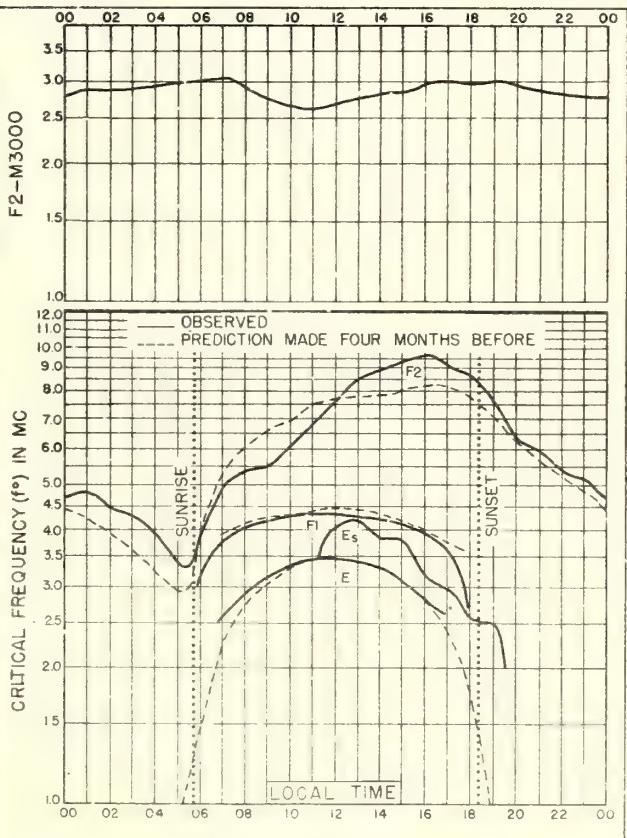


Fig.61. TRINIDAD, BRIT. WEST INDIES
10.6°N, 61.3°W JUNE, 1944

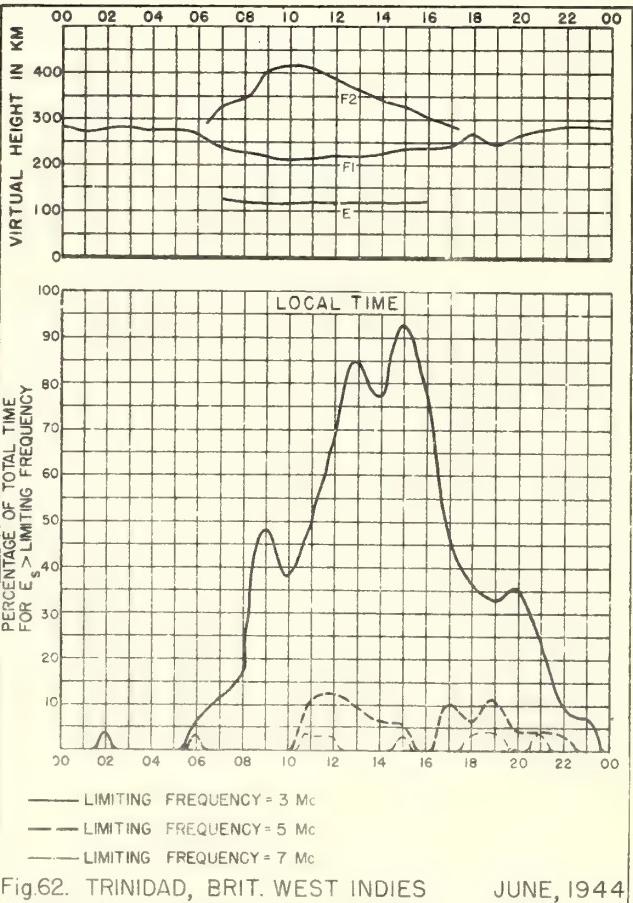


Fig.62. TRINIDAD, BRIT. WEST INDIES JUNE, 1944

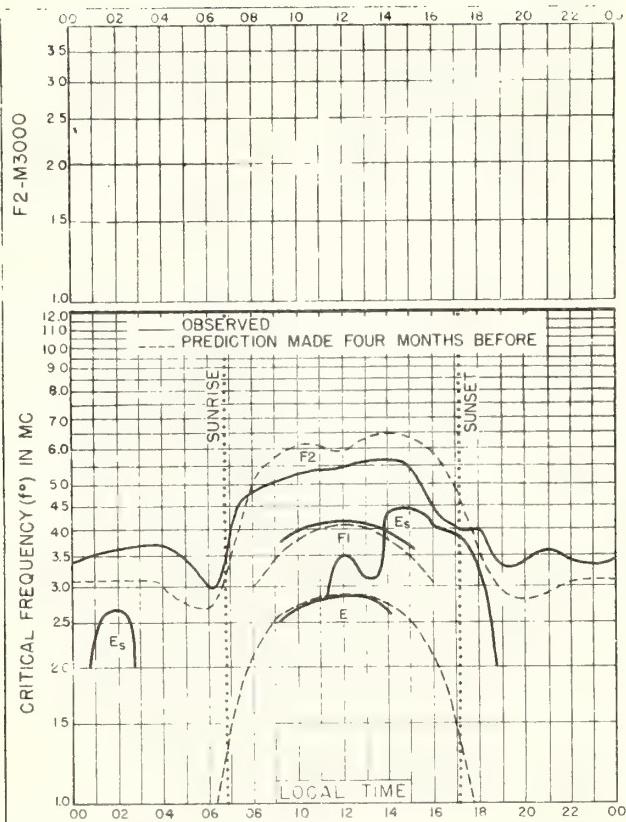


Fig. 63. BRISBANE, Q. AUSTRALIA

275° S, 153.0° E

JUNE, 1944

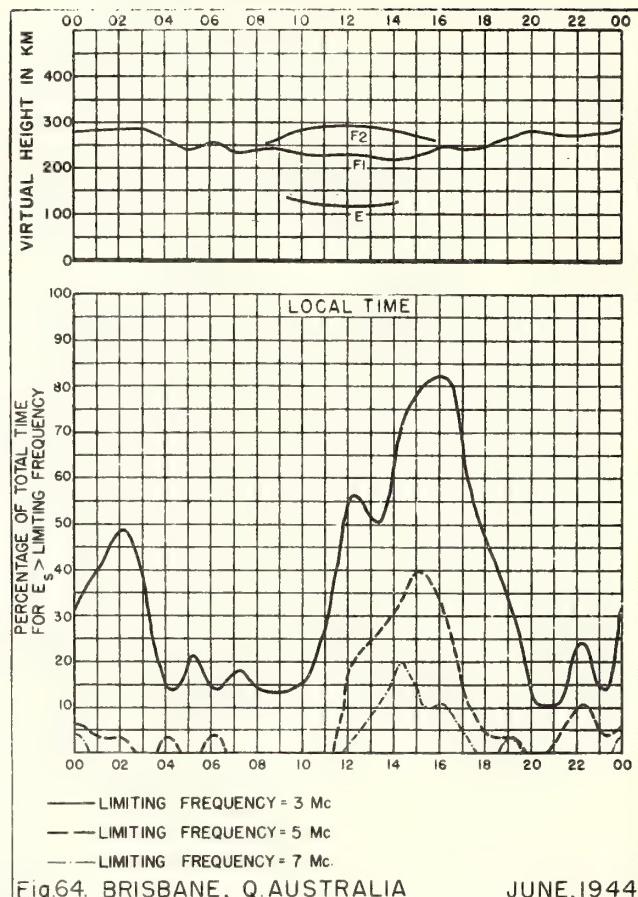


Fig. 64. BRISBANE, Q. AUSTRALIA

JUNE, 1944

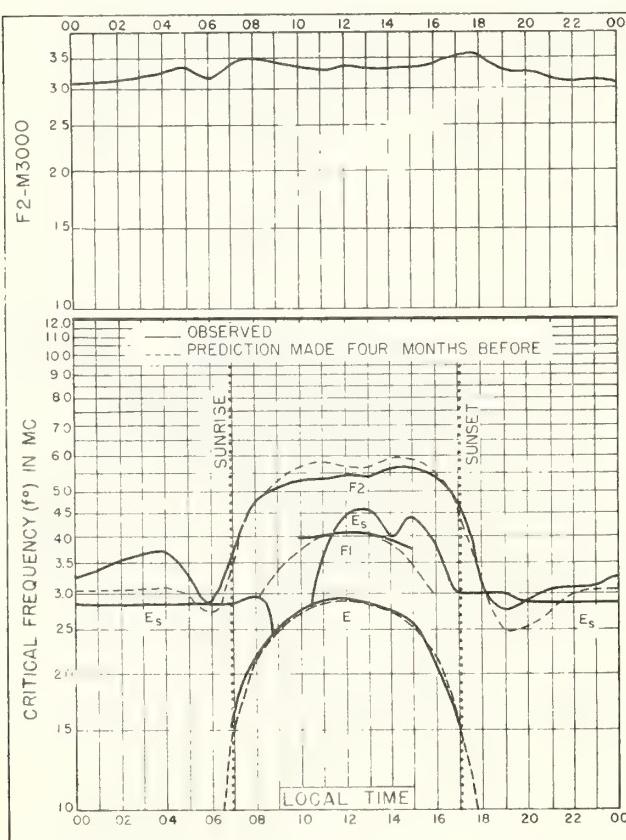


Fig. 65. WATHEROO, W. AUSTRALIA

303° S, 115.9° E

JUNE, 1944

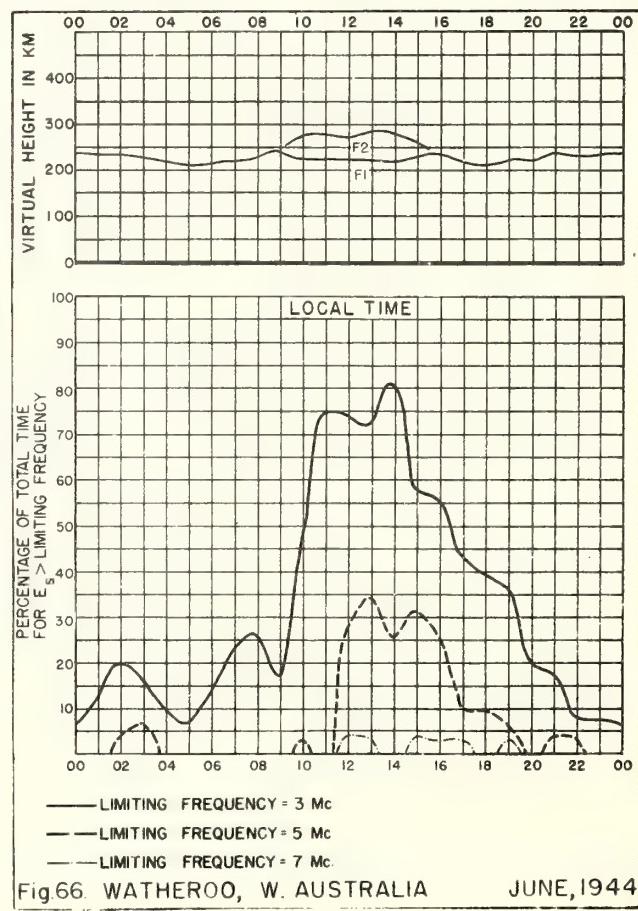


Fig. 66. WATHEROO, W. AUSTRALIA

JUNE, 1944

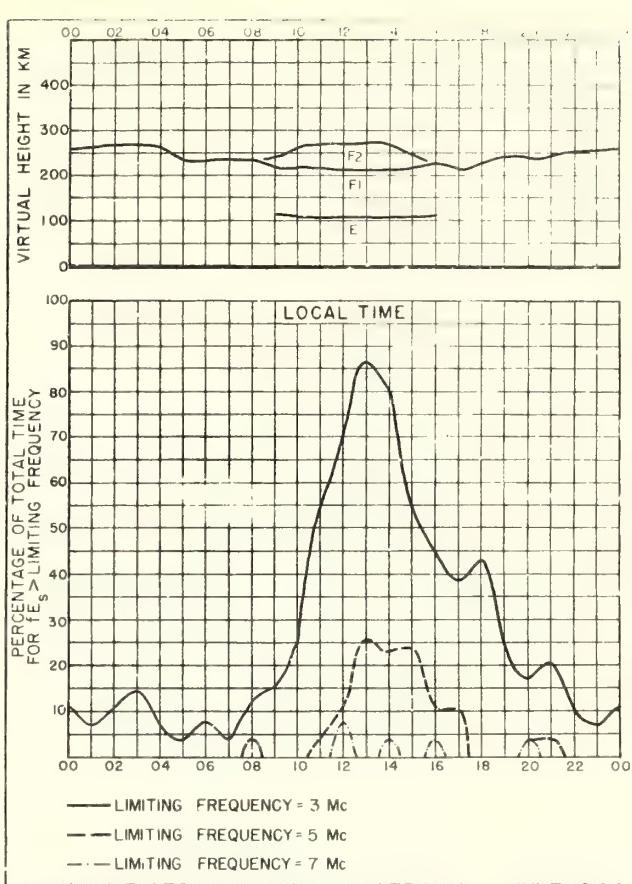
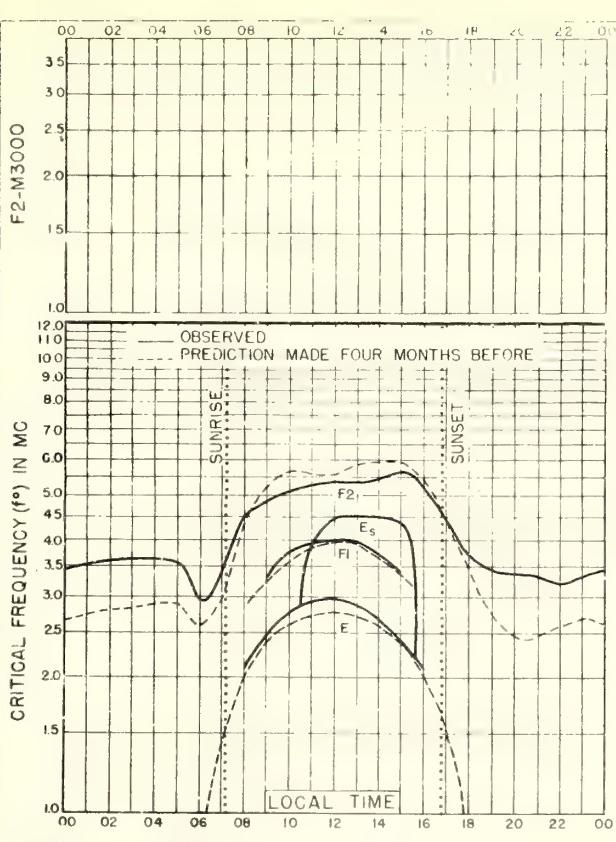
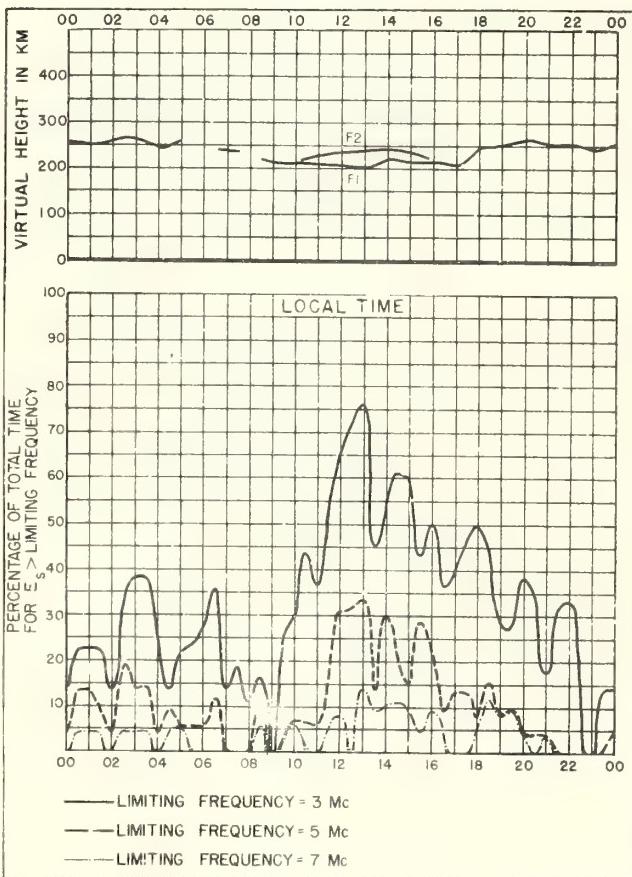
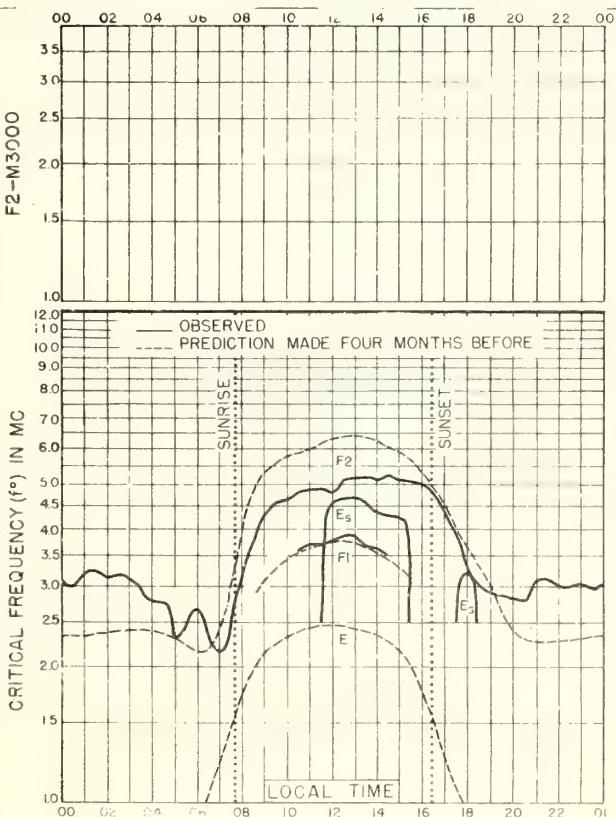


Fig. 67. MT. STROMLO, NSW, AUSTRALIA
35.3°S, 149.0°E JUNE, 1944



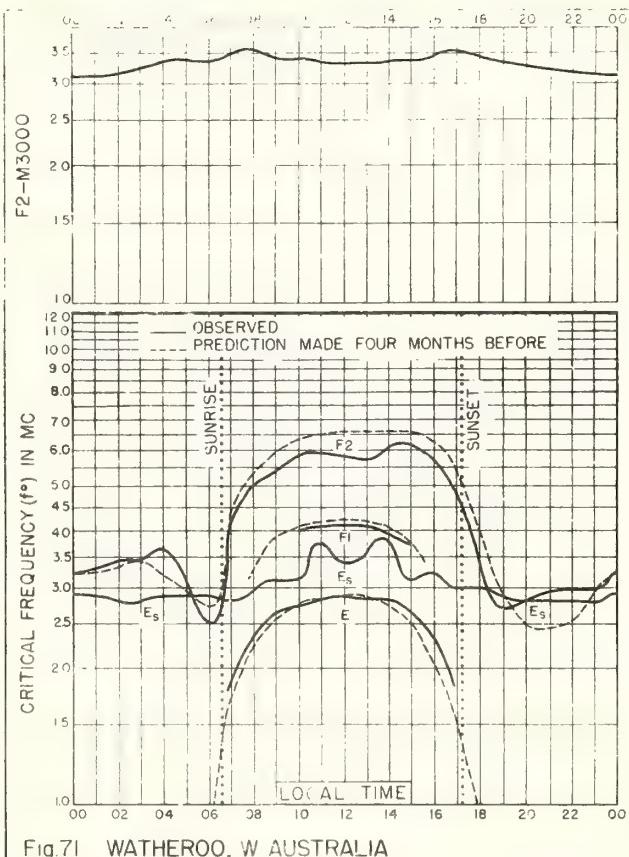


Fig. 71 WATHEROO, W AUSTRALIA
30°3'S, 115°9'E MAY, 1944

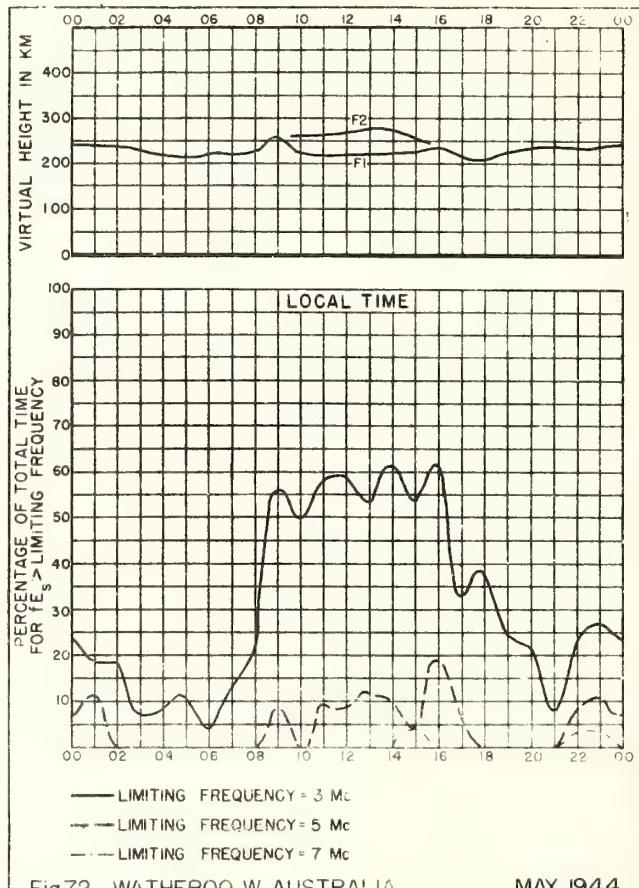


Fig. 72 WATHEROO, W. AUSTRALIA MAY, 1944

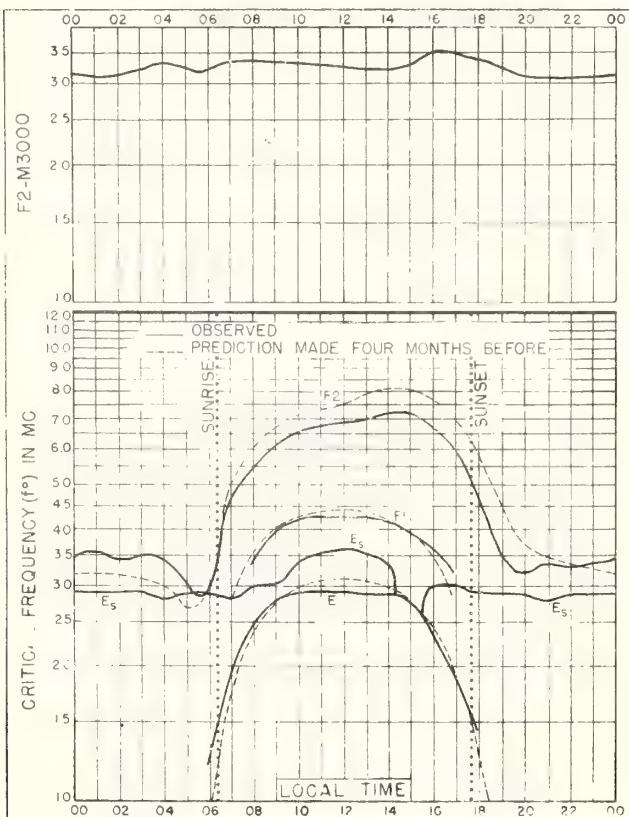


Fig. 73 WATHEROO, W. AUSTRALIA
30°3'S, 115°9'E APRIL, 1944

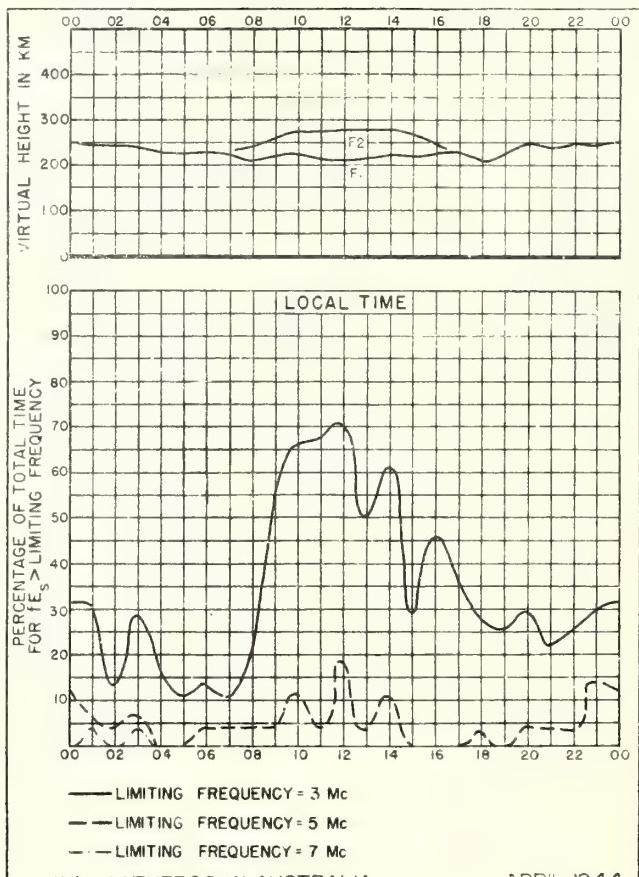


Fig. 74 WATHEROO, W. AUSTRALIA APRIL, 1944

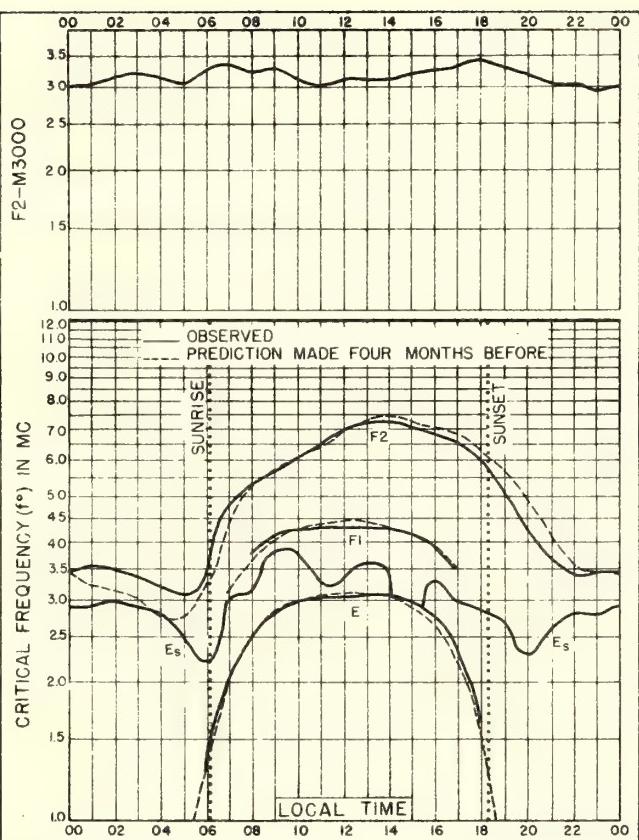


Fig. 75. WATHEROO, W. AUSTRALIA
30.3°S, 115.9°E MARCH, 1944

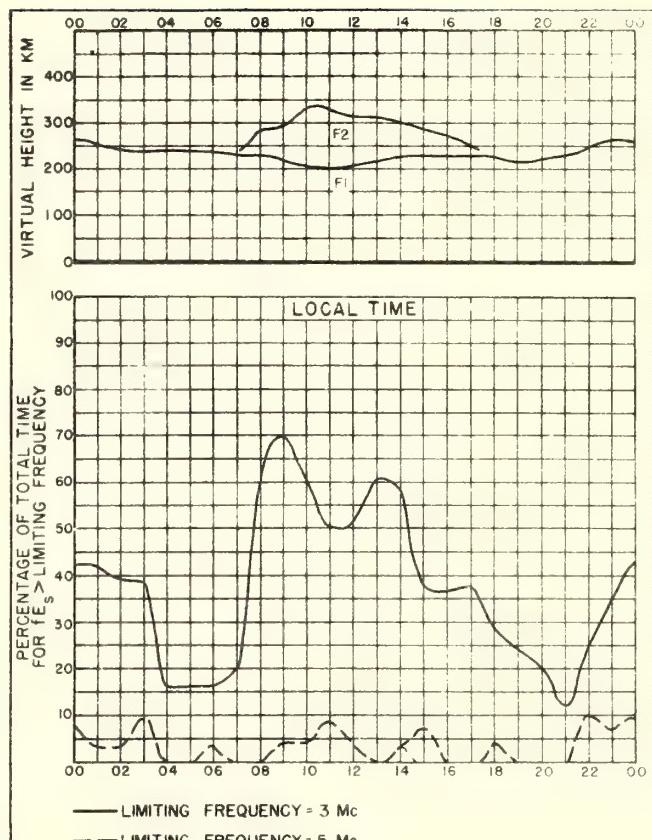
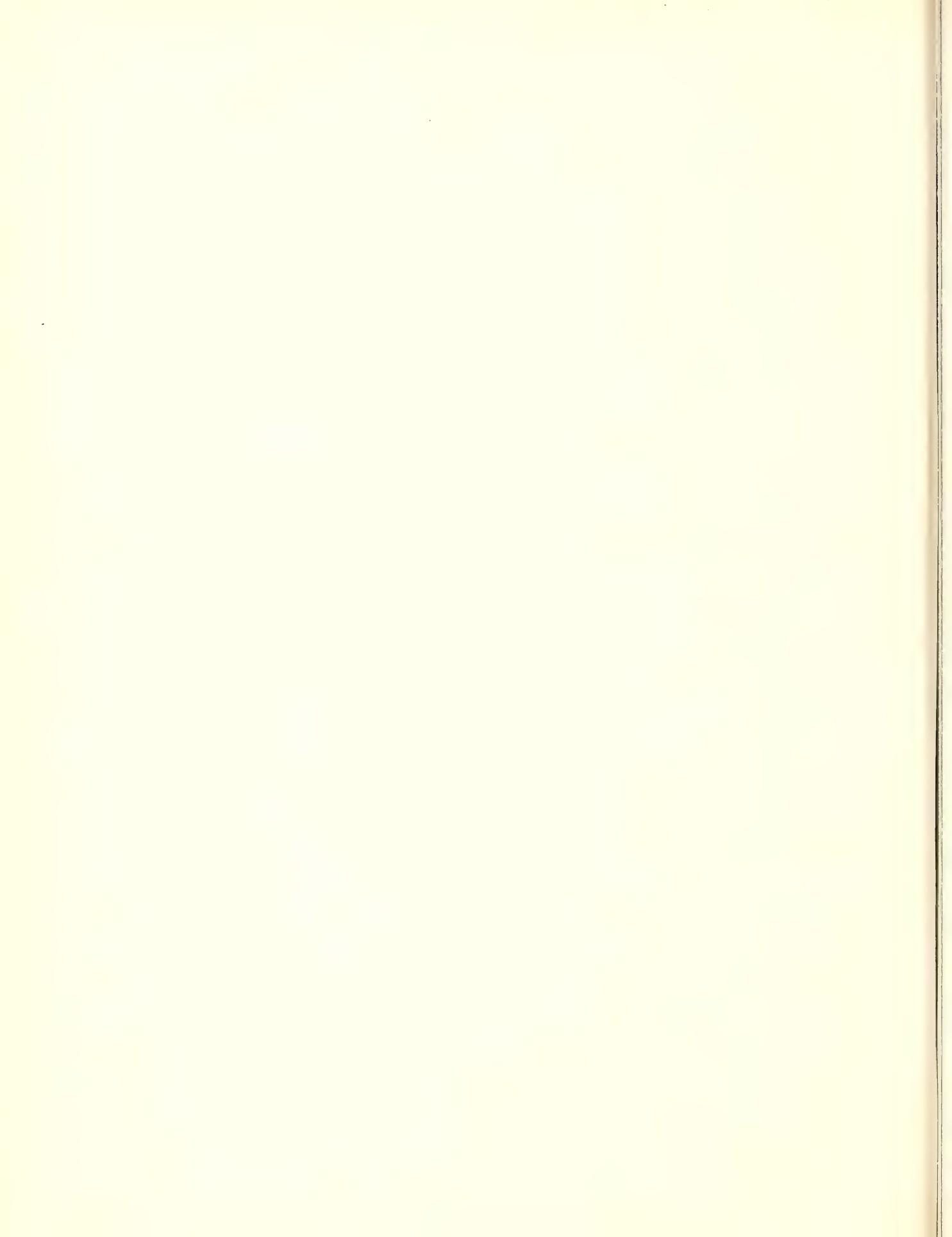
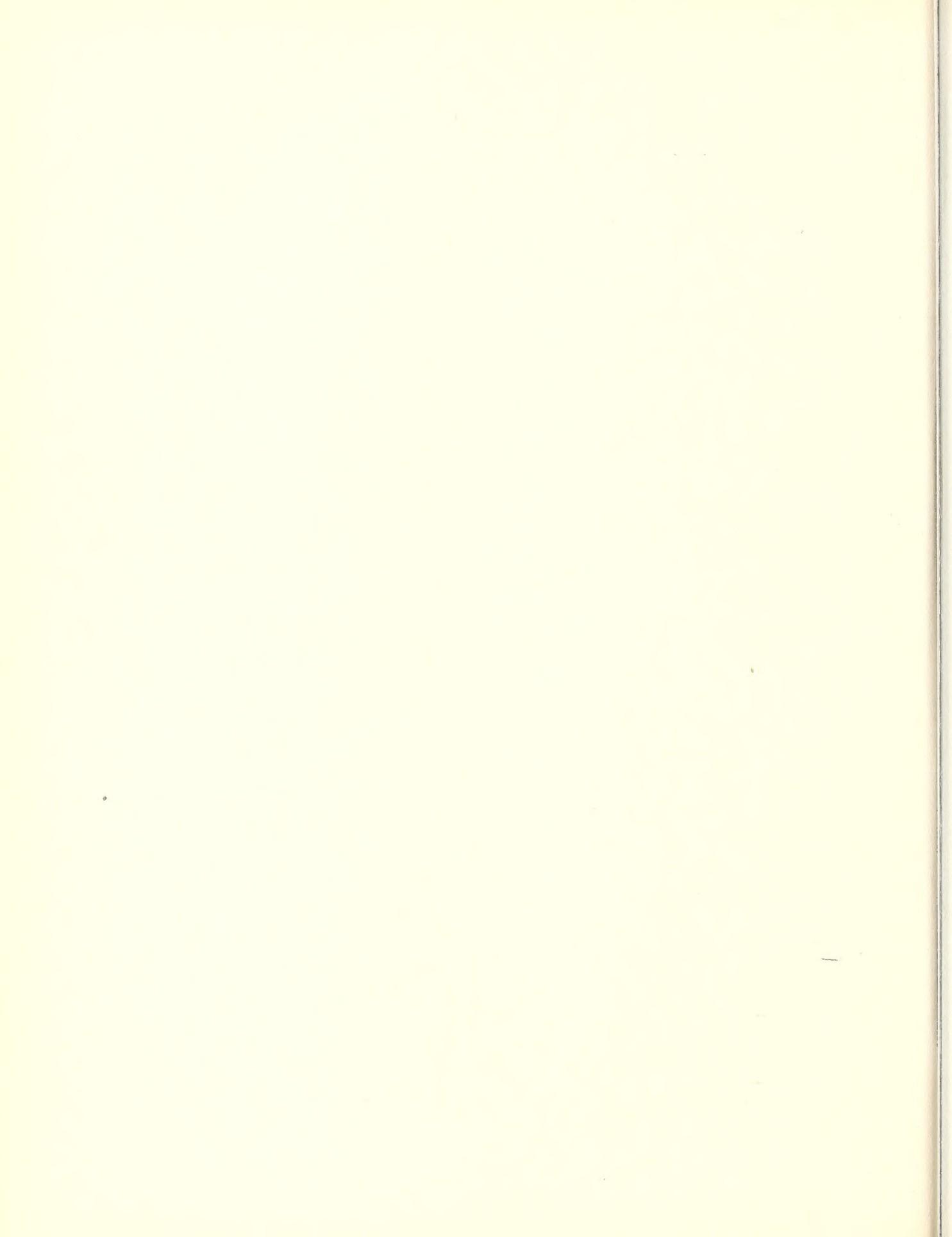


Fig. 76. WATHEROO, W. AUSTRALIA MARCH, 1944





IRPL REPORTS

Daily

Telephoned and telegraphed reports of ionospheric, solar, and magnetic data from various places.

Warnings of ionospheric disturbances.

Weekly

IRPL-J. Radio Propagation Forecast.

Monthly

IRPL-D. Basic Radio Propagation Conditions - Three months in advance.

IRPL-E. Radio Propagation Predictions - One month in advance.

IRPL-F. Ionospheric Data.

Bimonthly

IRPL-G. Correlation of D.F. Errors with Ionospheric Conditions.

Quarterly

IRPL-A. Recommended Frequency Bands for Ships and Aircraft in the Atlantic and Pacific.

IRPL-B. Recommended Frequency Bands for Submarines in the Pacific.

IRPL-K. Best Radio Frequencies for Aircraft and Ground Stations in the Atlantic.

IRPL-M. (WIMS APPENDIX N) Frequency Guide for Merchant Ships.

Semiannual

IRPL-H. Frequency Guide for Operating Personnel.

Special Reports, etc.

IRPL Radio Propagation Handbook, Part 1.

IRPL-C1 through C61. Reports and papers of the International Radio Propagation Conference, 17 April to 5 May 1944.

IRPL-R. Unscheduled reports.

R1. Maximum Usable Frequency Graph Paper.

R2 and R3. Obsolete.

R4. Methods Used by IRPL for the Prediction of Ionosphere Characteristics and Maximum Usable Frequencies.

R5. Criteria for Ionospheric Storminess.

R6. Experimental studies of ionospheric propagation as applied to a navigation system.

IRPL-T. Reports on Tropospheric Propagation.

T1. Radar Operation and Weather.

T2a. Radar coverage and weather.

